

Standard Bidding Document

Construction of Pre-Engineered Building (PEB) for Industry Hub – Daanish
University, Islamabad
(Works)

National

Single Stage-Two Envelope

CORRIGENDUM # 1	CORR-P128125-001
Initiation Date	September 25, 2026



September 26, 2026

*Daanish University Trust (Daanish University Trust), Section Officer
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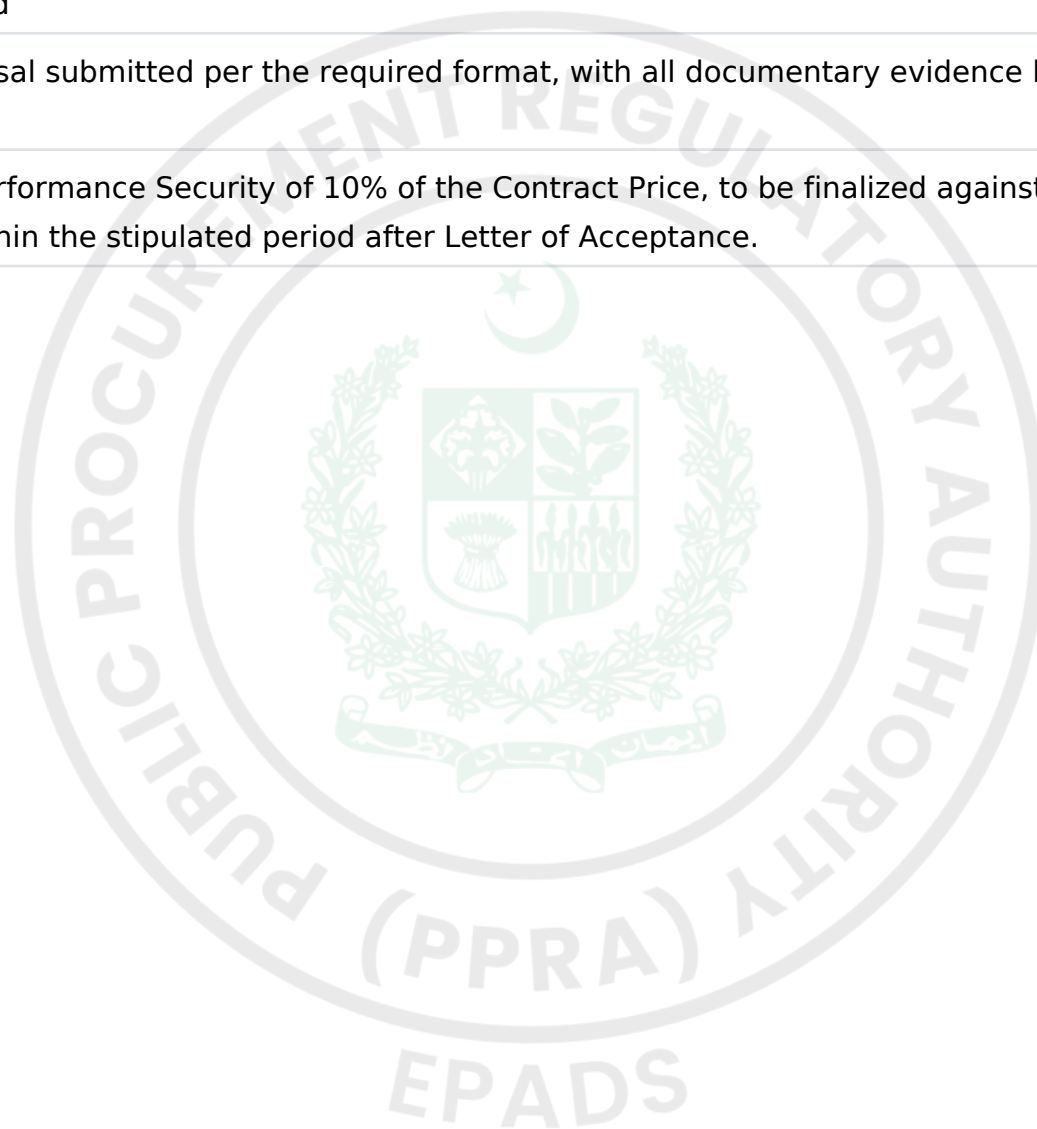
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Eligibility Criteria

Bidder's Type	Required Registration
Company (Private Limited)	FBR (NTN)
Company (Public Limited)	FBR (GSTN)
Company (Holding Company)	SECP
Company (Limited by Guarantee)	PEC
State Owned Enterprise (Private Limited)	Registrar of Firms
State Owned Enterprise (Public Limited)	

Eligibility Criteria	Document
Due to fast-track nature of the Project, bidding through Joint Ventures (JV), Consortiums, Associations, or any other form of joint bidding shall not be permitted. The Bidder shall be a single legal entity with full responsibility and capacity to execute the Works.	Yes
a. A civil construction firm with Valid registration with the Pakistan Engineering Council (PEC) , in C-1 category or higher and with valid registration codes: i. BC - 01: ii. CE - 01: iii. CE - 10: iv. EE - 01: v. EE - 02: vi. EE - 03: vii. EE - 04 viii. EE - 06: ix. ME - 01: x. ME - 02: xi. ME - 04:	Yes
b. Valid NTN, active status on FBR Active Taxpayers List (ATL), and General Sales Tax (GST)/Provincial Revenue Authority (PRA)registration	Yes
c. Firm in operation and legally registered (SECP/Registrar of Firms, as applicable) for a minimum of 5 years	Yes
d. No current blacklisting by any Federal/Provincial government department. (Stamp Paper)	Yes

e. Bid Security in the form of Pay order / Call Deposit Receipt (CDR) equal to Rs. 20,000,000 . Its original submission in Hard form, before the bid submission time, to the address given in the Tender Notice is mandatory without which the bid shall not be accepted	Yes
f. Complete Technical Proposal submitted per the required format, with all documentary evidence listed against each criterion below	Yes
g. Undertaking to furnish Performance Security of 10% of the Contract Price, to be finalized against the actual awarded contract value) within the stipulated period after Letter of Acceptance.	Yes



Evaluation Criteria

Least Cost Based Selection (LCBS)

Weightage

Technical Evaluation %	
100	
Technical Marks	100
Passing Marks	70
Firm Experience of Similar Projects (20 Marks) - Evidence required: Client completion certificates , signed contracts with values and dates, site photographs, client contact person and phone/email for verification calls.	
Number of completed PEB projects $\geq 40,000$ Sft in Pakistan, in the last 5 years (Qualitative) (Doc Required)	10
5 Projects (10) 4 Projects (8) 3 Projects (6) 2 Projects (4) 1 Projects (2)	

Experience with institutional/educational PEB buildings incorporating mezzanine floors and multi-purpose halls/seminar spaces (Qualitative)(Doc Required) 2 or more such projects (6) 1 such Project (3)	6
Prior execution of solar-panel-ready or walkable-roof PEB (collateral load ≥ 0.20 kN/m² for solar/utility loading) (Qualitative)(Doc Required) 1 or more projects = 4 claimed in proposal but not evidenced = 0 (4)	4
Financial Soundness (20 Marks) - Evidence required: Audited financial statements (3 years), bank credit line certificate (dated within 3 months of bid submission)	
Average annual turnover (last 3 audited financial years) (Qualitative)(Doc Required) $\geq$PKR 1,500 Million = 10 (10) PKR 1000-1,499 Million = 5 (5) PKR 500-999 Million = 3 and below will get 0 (3)	10
Bank credit line certificate, value confirmed by issuing bank (Qualitative)(Doc Required) $\geq$PKR 500 Million certified = 5 (5) PKR 250-499 Million = 3 (3)	5

Current ratio / working capital position (from latest audited balance sheet) (Qualitative)(Doc Required) Current ratio $\geq 1.5 = 5$ (5) 1.0-1.49 = 3 (3)	5
3.3 PEB Design Capability (20 points) - Evidence required: CVs of design team, software license certificates, 3D model extract for a comparable project.	
In-house structural design team and licensed design software (e.g., MBS-based PEB design software, STAAD.Pro, Tekla Structures) (Qualitative)(Doc Required) ≥ 3 structural engineers + 3 licensed PEB design software, in-house = 10 (10) 2 engineers + 2 software = 5 (5)	10
Prior design experience matching or exceeding this project's governing design parameters (160 km/h wind speed, Seismic Zone 2B, 0.25 kN/m² solar collateral load, 3.0 kN/m² mezzanine live load) (Qualitative)(Doc Required) All 4 parameters matched/exceeded on a prior project = 5 (5) 3 matched = 3 (3)	5
3D modeling and MEP/architectural clash-coordination capability, with sample output submitted (Qualitative)(Doc Required) Sample 3D model/clash report submitted = 5 (5)	5

PEB Fabrication Methodology & In-House Fabrication Facility (20 points) - Evidence required: Factory ownership documents, machinery list with make/model/year and photographs, QA/QC manual, sample mill test certificates, welder qualification certific	
Ownership and automated SAW (welding) line for PEB fabrication + Detailed Methodology (Qualitative)(Doc Required) Owned facility with automated SAW (welding) line for PEB fabrication = 8 Leased or subcontracted facility = 0 (8)	8
Machinery & plant inventory: CNC plasma/laser cutting, built-up section (H-beam) line, Sheet Profiling / rolling machine, sand-blasting and paint shop (Qualitative)(Doc Required) All machine categories owned = 5 None/any outsourced = 0 (5)	5
QA/QC system and material traceability (mill test certificates for ASTM A572M/A653M/A792M/A36/A325M) plus AWS-qualified welders (Qualitative)(Doc Required) Documented QA/QC manual + sample MTCs (minimum two material specification)+ welder qualification certificates all submitted = 4 Any missing or 0 submitted = 0 (4)	4
Surface preparation & paint system sand-blasting (Qualitative)(Doc Required) In-house, surface finish and paint thickness testing facility = 3 Outsourced or non-compliant thickness measurement /system or unclear = 0 (3)	3
PEB Erection Capability: Manpower & Equipment (10 points) - Evidence required: Equipment ownership/registration or signed lease/availability letters, named crew rosters with certifications, HSE policy document and method statement for fall protection	

Owned/leased cranes matched to frame spans and eave height (minimum one crane ≥ 30-ton capacity, plus a secondary crane/manlift) Crane fleet meeting requirement = 3 No equipment plan = 0 (Qualitative)(Doc Required) Crane fleet meeting requirement = 3 No equipment plan = 0 (3)	3
Dedicated erection crews (minimum 2 crews of ≥ 15 workers each, including certified riggers and AWS-qualified site welders) available for mobilization within the stated period (Qualitative)(Doc Required) 2 full crews with certifications listed by name = 4 (4) 1 Crew = 2 Crew not identified/insufficient = 0 (2)	4
Site HSE plan including fall-protection methodology matching the 900mm MS fall-protection spec, and 3-year safety incident record (Qualitative)(Doc Required) Detailed HSE plan + zero lost-time incidents in last 3 years (with client certification) = 3 (3) HSE plan present, incident record disclosed = 2 No HSE plan or concealed incident history = 0 (2)	3
3.6 Demonstrated Fast-Track Completion Experience (≤ 6 months) (10 points) - Evidence required: Completion certificates showing contract start/end dates for cited fast-track projects, a project-specific preliminary programme (Gantt/CPM) for this proje	

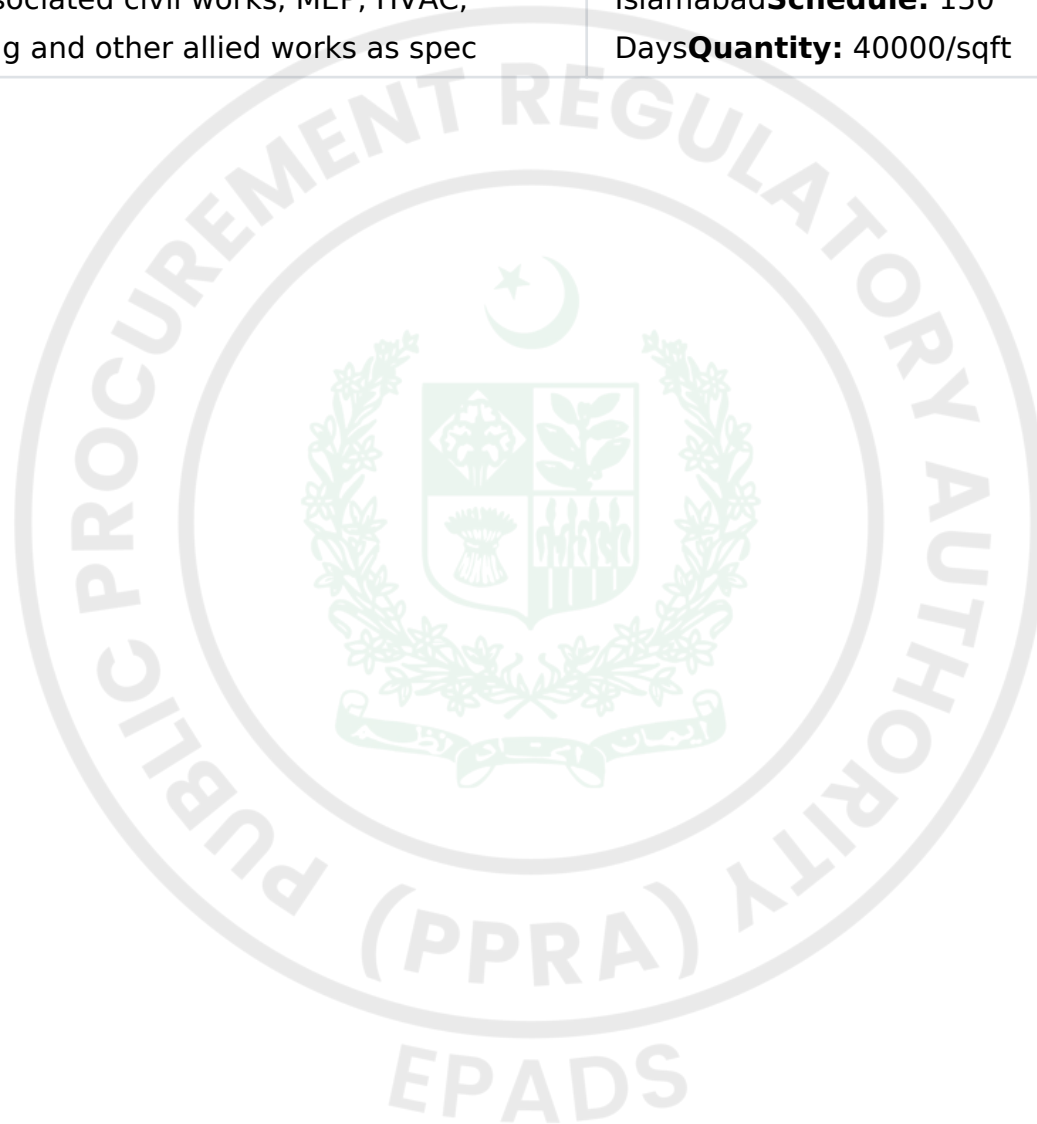
Verified PEB projects of $\geq 25,000$ Sft completed within 6 months, design-to-handover, in the last 3 years (Qualitative)(Doc Required) 2 or more verified projects = 4 (4) 1 verified project = 2 None = 0 (2)	4
Detailed construction programme (bar chart/critical path) demonstrating achievability of completion by March 22, 2027 for Shell & Core (40,000 Sft) (Qualitative)(Doc Required) Detailed, Critical Path programme with parallel-path fabrication/civil/erection sequencing, consistent with the tonnage and crew numbers claimed elsewhere in the bid = 3 (3) Generic programme = 1 Not submitted or internally inconsistent with claimed capacity = 0 (1)	3
Resource mobilization plan: number of simultaneous fabrication batches, number of erection crews deployed concurrently, logistics/transport plan (Qualitative)(Doc Required) Fully quantified plan (batches, crews, transport schedule) = 3 (3) Partial plan = 1 Not submitted = 0 (1)	3

Jobs/Lots

Jobs Without Lots :

Job	Delivery Schedule	Quantity	Bid Security
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Construction of Industrial Hub at Daanish University, Islamabad, comprising predominantly Pre-Engineered Building (PEB) works, including steel structure, associated civil works, MEP, HVAC, foundations, roofing, cladding and other allied works as spec	Address: Daanish University Park Road Islamabad Schedule: 150 Days Quantity: 40000/sqft	40000/sqft	20000000 PKR
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Work Specifications and Market Rates

Jobs Without Lots :

Job: Construction of Industrial Hub at Daanish University, Islamabad, comprising predominantly Pre-Engineered Building (PEB) works, including steel structure, associated civil works, MEP, HVAC, foundations, roofing, cladding and other allied works as spec

Specifications / Requirements:

Sr. No	Item	Description	Unit	Qty	Rate	Rate in words	Amount
1	1	Structure works & PEB Shed Cost	-	49747			
2	2	Architecture & Interior Works Cost	-	49747			
3	3	Electrical Works	-	49747			
4	4	Plumbing Works	-	49747			
5	5	HVAC System Works	-	49747			
6		Total Estimated cost					500000000
7		Total Quoted Amount by the Bidder					
8		Total quoted Amount by the Bidder in words					
9		The quoted rates shall be incusive of applicable taxes and other charges required to complete the building					

Sr. No	Item	Description	Unit	Qty	Rate	Rate in words	Amount
10		The mentioned total amount is estimates and tentative,					
11		The detailed BOQ is attached as Annex "titled Detailed BoQ"					
12		This form will be used for the comparative of bids					
13		*Calculated Area:					
14		Ground Floor	26092				
15		Mezzanine Floor	23655				
16		Total Approx. Covered Area Sft	49747				
						GRAND TOTAL:	Rs500,000,000.00

Scope of Work

DAANISH UNIVERSITY AT ISLAMABAD

SCOPE OF WORK

Construction of Industry Hub

1. Introduction / Project Overview

This Scope of Work (SOW) defines the construction activities, deliverables and responsibilities for the proposed Industry Hub building at Daanish University, Islamabad, on a covered area of 40,000 square feet. It sets out the works to be executed under Grey Structure, Pre-Engineered Building (PEB) Structure, Finishing/Interior Works, Electrical Works, Plumbing Works, VRF (HVAC) System, and External Works.

All works shall be carried out complete in all respects, in accordance with the approved architectural, structural, and MEP drawings/design, applicable building codes and standards, and subject to the approval of the Architect and the Company.

2. Scope of Works

2.1 Grey Structure - Foundation Works (Hall)

Covered Area: 40,000 Sft

Scope includes, but is not limited to:

- Site clearance and excavation for foundations as per structural drawings.
- Termite proofing/anti-termite treatment in foundations.
- Sand gravel filling and preparation of sub-base.
- Plain Cement Concrete (PCC) 1:4:8 for footings/base.
- Reinforced Cement Concrete (RCC) 1:2:4 for column footings and column pedestals.
- Structural steel reinforcement (Grade 60) as per design.
- Block work and plaster work for grey structure elements.
- Ghassu (earth/backfill) filling and compaction.
- Stone ballast laid under floor slabs.
- PCC (1:4:8) and RCC (1:2:4) flooring laid in panels.
- PCC (1:2:4) deck floor, where applicable.
- All grey structure works to be completed as per approved drawings/design and subject to Architect/Company approval.

2.2 Pre-Engineered Building (PEB) Structure

Covered Area: 40,000 Sft

- Design, fabrication, supply and erection of the Pre-Engineered Building (PEB) steel structure.
- Roof and wall insulation as per specification.

- Supply and installation of all complete accessories associated with the PEB structure (fasteners, flashing, trims, gutters, downspouts, louvers, ventilators, etc.).
- Works to be executed complete in all respects as per approved drawings/design.

2.3 Finishing / Interior Works

Covered Area: 40,000 Sft

- Floor tiling throughout, and bathroom tiling on floors and walls.
- Carpet tile flooring in designated areas.
- SPC (Stone Plastic Composite) flooring and vinyl flooring.
- Granite cladding on vanity counters.
- Stair steps/landing finishes and lift well finishing.
- Gypsum dry-wall partitions and aluminum partitions.
- Double-glazed curtain wall installation.
- Stone cladding to specified elevations/areas.
- Gypsum false ceiling and decorative false ceiling.
- Supply and installation of all doors.
- Wood works (joinery, cabinetry, wood finishes) and metal works.
- All finishing/interior works to be completed as per approved drawings/design and subject to Architect/Company approval.

2.4 Electrical Works

Covered Area: 40,000 Sft

- Complete internal electrical wiring, conduiting and distribution as per approved electrical drawings/design.
- Supply and installation of distribution boards, panels, switchgear and protective devices.
- Power outlets, lighting points, fixtures and fittings.
- Earthing and lightning protection systems.
- Any low-voltage/allied electrical works forming part of the approved design.
- Testing and commissioning of all electrical installations.

2.5 Plumbing Works

Covered Area: 40,000 Sft

- Complete water supply piping network (hot & cold, as applicable).
- Sanitary/drainage piping and connections to sanitary fixtures.
- Supply and installation of sanitary fixtures and fittings as per design.
- Rainwater/stormwater drainage piping, where applicable.
- Testing, flushing and commissioning of plumbing systems.

2.6 VRF (HVAC) System

Covered Area: 40,000 Sft

- Supply, installation, testing and commissioning of the Variable Refrigerant Flow (VRF) air-conditioning system.
- Indoor and outdoor units, refrigerant piping, condensate drainage, ducting and diffusers/grilles as per design.
- Electrical/control wiring associated with the VRF system, coordinated with the Electrical Works scope.
- Complete in all respects as per approved design and manufacturer's specifications.

In addition to the construction activities described above, the Contractor shall account for the following conditions/obligations in its pricing, as they carry direct or indirect cost implications:

The Contractor shall provide, at its own cost, all works, materials, labor, plant and enabling arrangements necessary and incidental to properly execute and complete the works, whether or not specifically itemized in the cost estimate/BOQ, including but not limited to: site temporary office and welfare facilities, material storage areas/laydown yards, site cleaning and housekeeping throughout construction, temporary access roads/routes within and to the site, temporary electricity and water supply for construction purposes, and security/watch-and-ward at site. This obligation extends to all other ancillary and enabling works reasonably required for the proper execution of the works described in this Scope of Work.

Mobilization & Site Establishment

- Mobilization/demobilization of manpower, plant, machinery and equipment to and from site.
- Site establishment including Contractor's site office, welfare facilities, store/laydown and material storage areas, labor camp/accommodation (if required), and site signage.
- Temporary fencing/hoarding and round-the-clock security/watch-and-ward at site for the duration of construction.

- Continuous site cleaning and housekeeping to keep work areas, access routes and storage areas clean and safe throughout construction.

Temporary Utilities & Facilities

- Temporary water supply and electricity/power (including standby generator) for construction purposes.
- Temporary access roads, site drainage and dewatering, if required.
- Temporary sanitary facilities for site staff and labor.

Quality Assurance & Testing

- Material testing (soil investigation, concrete cube/cylinder testing, steel testing, etc.) at approved/accredited laboratories.
- Third-party inspection and testing of MEP systems (electrical, plumbing, VRF) prior to handover.
- Mock-ups/sample panels for finishes (tiling, cladding, false ceiling, curtain wall, etc.) as may be required for Architect's approval.

Debris, Waste & Site Clearance

- Removal and lawful disposal of construction debris, excavated material (surplus to fill requirements) and packaging waste.
- Final site clean-up and handover in a broom-clean condition.

Supervision, Coordination & Documentation

- Contractor's technical/supervisory staff (project manager, site engineers, QA/QC, safety officer, surveyor, etc.) for the duration of the project.
- Operation & Maintenance (O&M) manuals and training/handover for VRF, electrical and plumbing systems.
- Warranty/guarantee documentation for equipment (VRF units, PEB structure, waterproofing, etc.) as applicable.

Defects Liability & Maintenance

- Defects Liability Period (DLP) – 1 from final handover /warranty period obligations after substantial completion, including rectification of defects at Contractor's cost during this period.
- Snagging/de-snagging works prior to final handover.

Delivery Schedule

- The contractor will deliver the PEB shell & Core by March 22, 2027
- Complete building in all respect by July 31, 202

Price Schedule

For Individual Jobs

#	Job Title	Quantity	Unit Price (PKR)	Total Price (PKR)	Delivery Location	Delivery Period / Year	Country of Origin
1							
2							

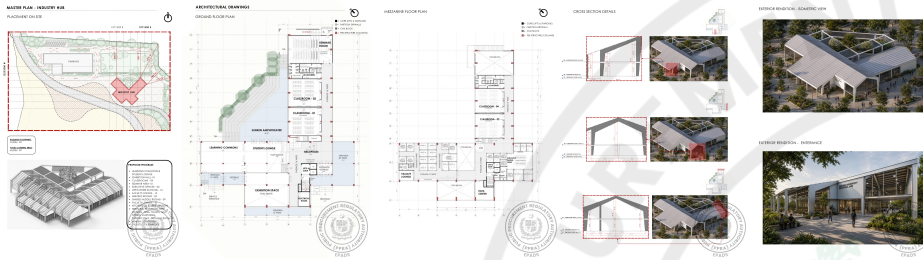
For Lots

#	Lot Title	Total Lot Price (PKR)	Country of Origin
1	[Lot 1 Title]		

Jobs Media

Jobs Without Lots:

Job: Construction of Industrial Hub at Daanish University, Islamabad, comprising predominantly Pre-Engineered Building (PEB) works, including steel structure, associated civil works, MEP, HVAC, foundations, roofing, cladding and other allied works as spec







General Conditions of Contract

Red Book:

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The Conditions of Contract are the “General Conditions” which form part of the “Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer (“Red book”) Second edition 2017” published by the Federation Internationale Des Ingenieurs – Conseils (FIDIC) and the following “Particular Conditions” which shall complement the General Conditions of the Contract.

The successful Bidder, upon contract award, shall be required to furnish two (02) copies of aforementioned “General Conditions” for incorporation in the Works Contract.

International Federation of Consulting Engineers (FIDIC) FIDIC

Bookshop – Box- 311 – CH – 1215 Geneva 15, Switzerland

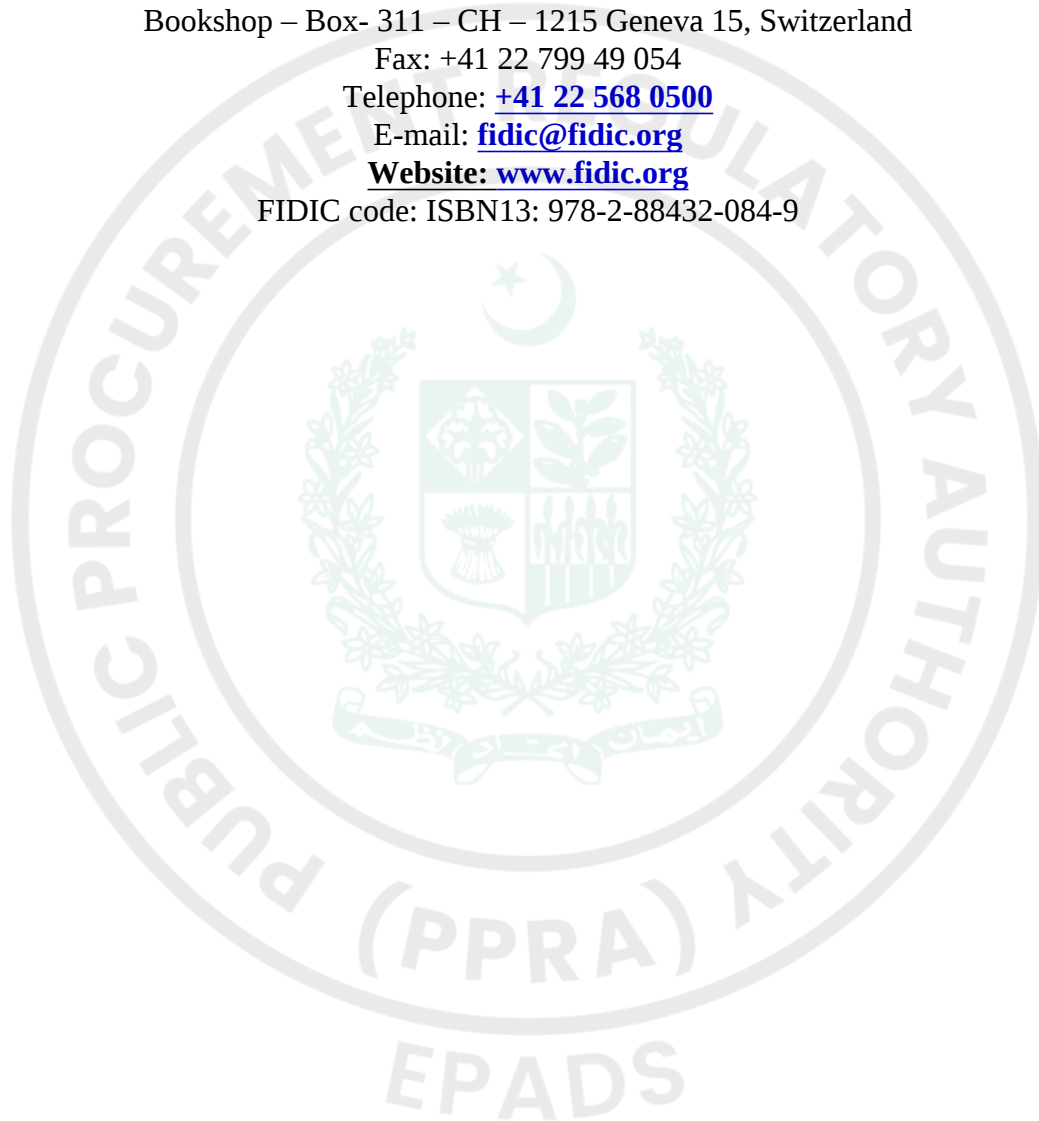
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E-mail: fidic@fidic.org

Website: www.fidic.org

FIDIC code: ISBN13: 978-2-88432-084-9





Special Conditions of Contract

PARTICULAR CONDITIONS OF CONTRACT (PCC)

Particular Conditions

(Mandatory Provisions not to be amended/substituted)

The Particular Conditions (PCC) complement the General Conditions (GCC) to specify dates, contractual requirements, and special circumstances related to the Works. The PCC consists of two parts, Part A - Contract Data and Part B - Special Provisions. The provisions to be found in the Special Provisions (Particular Conditions - Part B) take precedence over the equivalent provisions found under the same Sub-Clause number(s) in the General Conditions, and the provisions of the Contract Data (Particular Conditions - Part A) take precedence over the Special Provisions (Particular Conditions - Part B).

PART A - Contract Data

Sub-Clause 1.1.27

Defects Notification Period (DNP): **210** Days

Sub-Clause 1.1.31

Employer's name & address: **Daanish University Trust (Daanish University Trust), Section Officer Room 227, 2nd Floor, D-Block, Pak Sectt., Islamabad Capital Territory**

Sub-Clause 1.1.35

Engineer's name & address: To be notified by the employer

Daanish University Evacuee Trust

Sub-Clause 1.1.84

Time for Completion: **210** days for whole of the works

Sub-Clause 1.3 (a)(ii)

Agreed method of electronic transmission: Not Agreed

Sub-Clause 1.3 (d)

Address of Employer for Communications: **Room 227, 2nd Floor, D-Block, Pak Sectt., Islamabad Capital Territory**

Address of Engineer for Communications:

Daanish University Evacuee Trust

Address of Contractor for Communications: -----

Sub-Clause 1.4

Contract shall be governed by the law of: **Islamic Republic of Pakistan**

Ruling language: **English**

Language for communications: **English**

Sub-Clause 2.1

After receiving the Letter of Acceptance, the Contractor shall be given right of access to all or part of the Site within: **10** days after Commencement Date

Sub-Clause 2.4

Employer's financial arrangements:

DUT

Sub-Clause 3.2 (e)(ii)

Engineer's Duties and Authority: **Variation resulting in an increase of the Accepted Contract Amount in excess of one percent (1%) subject to accumulative Variations not exceeding five percent (5%) of the Accepted Contract Amount**

Sub-Clause 4.2

Performance Security (as percentage of the Accepted Contract Amount in Currencies): 10.00%

Form of Performance Guarantee: **Bank Guarantee**

Sub-Clause 4.2.1

List of Insurance Companies:

Bank Guarantee

Sub-Clause 4.7.2

period for notification of errors in the items of reference: **Twenty Eight (28) days**

Sub-Clause 4.19

Period of payment for temporary utilities: **Each Month**

Sub-Clause 5.1 (a)

Maximum allowable accumulated value of work subcontracted (as a percentage of the Accepted Contract Amount): **30 %**

Sub-Clause 5.1 (b)

Parts of the Works for which subcontracting is not permitted: **70**

Sub-Clause 6.5

Normal working hours on the Site: **12**

Sub-Clause 8.3

Number of additional paper copies of programmes: **2**

Sub-Clause 8.8 & 14.15(b)

Delay Damages payable for each day of delay **0.33%** of the Accepted Contract Amount for delay in completion of whole of the Works

Sub-Clause 8.8

Maximum amount of Delay Damages **10.00 %** of the Accepted Contract Amount

Sub-Clause 8.14

Applicability of Incentives for Early Completion **No**

Sub-Clause 12.3

Percentage profit (Not more than 10%): **Nil**

Sub-Clause 13.4.(b)(ii)

Percentage rate to be applied to Provisional Sums for overhead charges and profit: **Twenty Five percent (25%)**

Sub-Clause 14.2

Total Advance Payment: **Fifteen percent (15%) of the Accepted Contract Amount excluding Provisional Sums payable in the currencies and proportions in which the Accepted Contract Amount is payable**

Sub-Clause 14.2.1

Advance Payment Insurance **Allowed**

Sub-Clause 14.2.3

Percentage deductions for the repayment of the Advance Payment: Deduction shall be made at the amortization rate of 17.5 % of the value of the Works executed of each IPC as provided in paragraph (i) of Sub-Clause GCC 14.3, starting from 2nd IPC provided that the advance payment shall be completely repaid prior to the time when 90% of the Accepted Contract Amount less Provisional Sums has been certified for payment. It may be more than 17.5% in the last instalment to ensure full repayment.

Sub-Clause 14.3

Period of payment **One Month**

Sub-Clause 14.3(b)

Number of additional paper copies of Statements: **2**

Sub-Clause 14.3 (iii)

Percentage of retention: **Seven percent (7%)**

Sub-Clause 14.3 (iii)

Limit of Retention Money (as a percentage of the Accepted Contract Amount): **Five percent (5%)**

Sub-Clause 14.5(b)(i)

Plant and Materials for payment when shipped: **Plant and Materials under Bill of “Imported Plant and Materials”**

Sub-Clause 14.5(c)(i)

Plant and Materials for payment when delivered to the Site: **Plant and Non Perishable Materials**

Sub-Clause 14.6.2

Minimum amount of Interim Payment Certificate (IPC): **Yes**

The Minimum Amount IPC is 30%

[Employer to give value not exceeding one fifth of the average expected value of Interim Payment Certificate]

Sub-Clause 14.7(a)

Period of payment of Advance Payment to the Contractor: **14 days**

Sub-Clause 14.7b(i)

Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.6: **28 days**

Sub-Clause 14.7b(ii)

Period for the Employer to make interim payments to the Contractor under Sub-Clause 14.13 (Final Payment): **60 days**

Sub-Clause 14.7(c)

Period for the Employer to make final payment to the Contractor: **56 days**

Sub-Clause 14.8

Financing charges for delayed payment Local Currency (PKR):

6-Month KIBOR (Offer) +3% per annum.

Foreign Currency:

USD

6-Month SOFR (Secured Overnight Financing Rate for USD) +1% per annum.

EURO

6-Month EURIBOR (EURO Interbank Offered Rate for EURO) +1% per annum.

Others

Appropriate rates +1% (for other foreign currencies, Ref. Schedule-A, A-4 to Bid).

Sub-Clause 14.11.1(b)

Number of additional paper copies of draft Final Statements: **3**

[insert number of copies say six (06)]

Sub-Clause 14.15

Currencies of payment of Contract Price: **as stated in the Table Schedule of Adjustment Data of Schedule A (if Given)**

Sub-Clause 14.15(a)(i)

Proportions or amounts of Local and Foreign currencies: **as stated in the Table Schedule of Adjustment Data of Schedule A (if Given)**

Sub-Clause 14.15(c)

Currencies and proportions for payment of Delay Damages: **as stated in the Table Schedule of Adjustment Data of Schedule A (if Given)**

Sub-Clause 14.15(f)

rates of exchange: **as stated in the Table IV of Schedule A (If Given)**

Sub-Clause 17.2(d)

Forces of nature, the risks of which are allocated to the Contractor: **Nil**

Sub-Clause 19.1

Permitted deductible limits:

- i) insurance required for the Works: **Ten percent (10%) of loss amount on each & every loss**
- ii) insurance required for Goods: **Nil**
- iii) insurance required for liability for breach of professional duty: **Nil**
- iv) insurance required against liability for fitness for purpose (if any is required): **Nil**
- v) insurance required for injury to persons and damage to property: **Nil**
- vi) insurance required for injury to employees: **Nil**
- vii) other insurances required by Laws and by local practice : **Nil**

Periods for submission of insurance:

- a) evidence of insurance: Not later than the Commencement Date
- b) relevant policies: Within twenty eight (28) day from the Commencement Date

Sub-Clause 19.2.1(b)

Additional amount to be insured (as a percentage of the replacement value): 15% of the replacement value (Accepted Contract Amount)

Sub-Clause 19.2.2

Extent of insurance required for Goods: From Ex-Works (i.e., works, factory, warehouse, etc) to delivery at the Site

Amount of insurance required for Goods: Full replacement value

Sub-Clause 19.2.3(a)

Amount of insurance required for liability for breach of professional duty: Full replacement value of the Works to be designed by the Contractor

Sub-Clause 19.2.3(b)

Insurance required against liability for fitness for purpose: **Yes**

Sub-Clause 19.2.3

Period of insurance required for liability for breach of professional duty: Until the date of issuance of Performance Certificate

Sub-Clause 19.2.4

Amount of insurance required for injury to persons and damage to property: Injury to person and Fatal case: in accordance with Workmen Compensation Act

Damage to Property: The Amount of Insurance Required for Person Injury is Rs. 1 Million or based on the assessment

The Amount of Insurance Required for Damage to Property is Rs. 1 Million or based on the assessment as per his assessment of the adjoining property(ies) other than the Works] without limit to the number of incidents

Sub-Clause 19.2.6

Other insurances required by Laws and by local practice: All insurances as applicable, to the extent of execution of the project, under Federal and Provincial laws of Islamic Republic of Pakistan

Sub-Clause 21.1

Time for appointment of the DAAB: Within 28 days from the Commencement Date.

In case the Accepted Contract Amount is lesser than PKR one (01) billion, appointment of the DAAB shall be made when Dispute arises between the Parties.

Sub-Clause 21.1

The DAAB shall comprise 1

[insert either "a sole Member" or "Three Members"]

[For a Contract estimated to cost above PKR 2.5billion, the DAAB shall comprise of three members. For a Contract estimated to cost between PKR1billion and PKR2.5billion, the DAAB may comprise of three members or a sole member. For a Contract estimated to cost less than PKR1billion, a sole member is recommended.]

Sub-Clause 21.1

List of proposed members of DAAB

- proposed by Employer

1. Project Director, 2. Secretary DUT, 3. ED, DUT

- proposed by Contractor

[to be inserted at the time of signing of the Contract]

1. _____
2. _____
3. _____

Sub-Clause 21.2

Appointing entity (official) for DAAB members Managing Director Public Procurement Regulatory Authority (PPRA) or Chairman Pakistan Engineering Council (PEC) from the list of PEC approved

arbitrators published at its website

Sub-Clause 21.6

Rules of Arbitration: PEC Rules of Conciliation and Arbitration or Pakistan Arbitration Act of 1940, if the former is inactive.

The place of Arbitration shall be in the Employer's country: **ISLAMABAD**

[Insert name of city]

Particular Conditions

PartB - Special Provisions

1.1 Definitions

1.1.76 "Specification"

Following is added at the end:

"and consists of two parts i.e.,

- i) "Part A - Specific Provisions"; and
- ii) "Part B - Technical Provisions".

1.2 Interpretation

"and" is deleted from the end of sub-paragraph (i) and added at the end of sub-paragraph (j).

Sub-paragraph (k) is added:

"(k) The word "tender" is synonymous with "bid" the word tenderer with "bidder", the words "tender documents" with "bidding documents" and "Schedule of Prices" with "Bill of Quantities", as applicable."

1.5 Priority of Documents The documents listed at (a) through (k) of this Sub-Clause are deleted and substituted with the following:

- (a) the Contract Agreement;
- (b) the Letter of Acceptance;
- (c) the Letter of Bid;
- (d) the Particular Conditions Part A - Contract Data;
- (e) the Particular Conditions Part B - SpecialProvisions;
- (f) the General Conditions;
- (g) the Specification Part A - SpecificProvisions;
- (h) the Specification Part B- Technical Provisions;
- (i) the Drawings;
- (j) the completed Schedules to Bid includingBillof Quantities;
- (k) the JV Undertaking (if the Contractor is a JV); and
- (l) any other documents forming part of the Contract.

The addenda/corrigenda, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

1.6 Contract Agreement

In the last line of the 1st paragraph the text "shall be borne by the Employer" is substituted by "shall be reimbursed by the Employer to the Contractor".

3.1 The Engineer

In sub-paragraph (a) the text “as defined in the Pakistan Engineering Council Act, 1975 (Act No.V of 1976)” are added after the words “professional engineer”.

3.2 Engineer’s Duties and Authority

The Engineer shall obtain the consent in writing of the Employer before taking action under the following Sub-Clauses of these Conditions:

- (a) Consenting to the subcontracting of any part of the Works under Sub-Clause 5.1 [Subcontractors]
- (b) Any action under Sub-Clauses 8.9 [Employer’s Suspension] and 8.12 [Prolonged Suspension]
- (c) Issuance of “Taking Over Certificate” under Sub-Clause 10.1 [Taking Over the Works and Sections].
- (d) Issuing the “Performance Certificate” under Sub-Clause 11.9 [Performance Certificate].
- (e) Sub-Clause 13.1 [Right to Vary]: instructing a Variation, except;
 - (i) in an emergency situation as determined by the Engineer, or
 - (ii) if such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the Contract Data.
- (f) Sub-Clause 13.3 [Variation Procedure]: approving a proposal for Variation submitted by the Contractor in accordance with Sub-Clause 13.3.2 [Variation by Request for Proposal] or 13.2 [Value Engineering].
- (g) Certifying release of second half of the Retention Money under Sub-Clause 14.9 [Release of Retention Money].
- (h) Issuing Final Payment Certificate under Sub-Clause 14.13 [Issue of FPC].

(i) *[insert Sub-Clause number (not Sub-Clause 3.7 [Agreement or Determination]

Any such requirement shall not be applied to any action by the Engineer under Sub-Clause 3.7 [Agreement or Determination], as stated in Sub-Clause 3.2 [Engineer’s Duties and Authority] of the General Conditions.

Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Employer.

Following is added after the words “the Employer’s consent is required” in 4th paragraph: “stating that the Employer’s consent has been obtained for that specified authority”

4.2 Performance Security

4.2.1 Contractor’s Obligations

The entity issuing the Performance Security and its form shall be as under:

The Performance Security shall be, at the option of the Contractor, issued in the prescribed form included in the Bidding Documents, by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the Contract Data and rated by PACRA/VIS of ratings provided in Table below:

Accepted Contract Amount (In Eq. PKR million)	Minimum Rating of Insurance Companies
---	---------------------------------------

Up to 1000	A (+)
------------	-------

1001 to no limit	AA
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In case of Joint Venture, the Performance Security shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

Following paragraph is added at the end of this Sub-Clause:

“The amount of Performance Security shall be reduced to 50% following issue of the Taking-Over Certificate for the whole of the Works under Clause 10 of Conditions of Contract.”

4.3 Contractor’s Representative

In second paragraph the text “professional engineer as defined in the Pakistan Engineering Council Act, 1975 (Act No. V of 1976) (having temporary licence in case of foreign engineer under Section 12 of the Pakistan Engineering Council Act, 1975 (Act No. V of 1976)” are added after the words “qualified, experienced”. In the 3rd paragraph the words “28 days” are substituted by “14 days”. In 2nd line of 4th paragraph the text “or appoint a replacement” is substituted by “except appointment of a suitable temporary replacement is deployed at the Site”

4.4 Contractor’s Documents

4.4.2 As-Built Records

First paragraph is deleted and the text in the last paragraph is substituted with the following:

“The Contractor shall furnish to the Engineer 6 copies, one reproducible and one electronic copy (provided the Engineer has made available to the Contractor editable form of the Drawings) of all Drawings amended to conform to the Works as built. In case the Engineer does not make available to the Contractor editable form of the Drawings, the Contractor shall furnish to the Engineer as-built data for incorporation in the Drawings. Upon receipt of PDF versions of the as-built drawings prepared by the Engineer, the Contractor shall furnish to the Engineer 6 copies and one reproducible of these Drawings.

The price of such Drawings shall be deemed to be included in the Contract Price.”

Following Sub-Clause is added:

4.4.4 Shop Drawings

The Contractor shall submit to the Engineer for review 3 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not exceed 21 days and be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and the Engineer’s review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

4.8 Health and Safety Obligations

The following text is added at the end of this Sub-Clause:

In the event of work being carried out outside the normal working hours and in the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer.

4.20 Progress Reports

At the end of sub-paragraph (g) the word “and” is deleted and at the end of sub-paragraph (h) the full stop (.) is replaced with “;”, and the following new sub-paragraphs are added as:

- (i) planned programme for the execution of the Works for next 56 days to enable the Engineer to determine its programme of inspection and testing;
- (j) monthly summary of daily job record indicating weather conditions, deployment of Contractor’s Equipment, labour employment, local material procurement and material import, if any; and
- (k) salient contractual and project information.

5.1 Subcontractors

Add the following text at the end of paragraph (ii):

“under Schedule to Bid”

The following is added at the end of the last paragraph of Sub-Clause 5.1:

“All subcontracts relating to the Works shall include provisions which entitle the Employer to require the subcontract to be assigned to the Employer under sub-paragraph (a) of Sub-Clause 15.2.3 [After Termination].

The Contractor shall give reasonable opportunity to contractors from Islamic Republic of Pakistan for

subcontracts for the Works, and endeavour to employ such contractors as Subcontractors.”

5.2 Nominated Subcontractors

5.2.2 Objection to Nomination

In sub-paragraph (c), “and” is deleted from the end of (i);

“.” at the end of (ii) is replaced with: “, and”.

The following is then added as (iii):

“(iii) be paid only if and when the Contractor has received from the Employer payments for sums due under the Subcontract referred to under Sub-Clause 5.2.3 [Payment to nominated Subcontractors].”

6.1 Engagement of Staff and Labour

The following paragraph is added at the end of the Sub-Clause:

“The Contractor shall, to the extent practicable and reasonable, employ staff (not less than 50%) and labour (not less than 85%) with appropriate qualifications and experience from sources within the Islamic Republic of Pakistan.”

6.7 Health and Safety of Personnel

The existing text is substituted with the following:

“In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorize or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose. The Contractor shall also provide all other medical services and appoint a health and safety officer at Site if stated in the Specifications. In case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.”

6.8 Contractor’s Superintendence

Insert at the end of sub-paragraph (a) of this Sub-Clause:

"or, if not, the Contractor shall make competent interpreters available during all working hours, in a number sufficient for those persons to properly perform their superintendence duties"

The following text is added at the end of this Sub-Clause:

“The Contractor’s authorized representative and his other engineers working at site shall possess valid registration with the Pakistan Engineering Council.

The Contractor’s authorized representative at Site shall be authorized to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.”

6.12 Key Personnel

The following is inserted at the end of the last paragraph:

“If any of the Key Personnel are not fluent in this language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.”

The following Sub-Clauses 6.13 to 6.26 are added at the end of Sub-Clause 6.12:

6.13 Foreign Personnel

The Contractor may bring in to the Country any foreign personnel who are necessary for the execution of the Works to the extent allowed by the applicable Laws. The Contractor shall ensure that these personnel are provided with the required residence visas and work permits. The Employer will, if requested by the Contractor, use all reasonable endeavours 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.

The Contractor shall be responsible for the return of these personnel to the place where they were recruited or to their domicile. In the event of the death in the Country of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.14 Supply of Foodstuffs

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

6.15 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

6.16 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

6.17 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal thereto by Contractor's Personnel.

6.18 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

6.19 Festivals and Religious Customs

The Contractor shall respect the Country's recognized festivals, days of rest and religious or other customs.

6.20 Funeral Arrangements

The Contractor shall be responsible, to the extent required by local regulations, for making any funeral arrangements for any of its local employees who may die while engaged upon the Works.

6.21 Forced Labour

The Contractor, including its Subcontractors, shall not employ or engage forced labour which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.

6.22 Child Labour

The Contractor, including its Subcontractors, shall not employ or engage child labour in accordance with relevant law(s) in force in Islamic Republic of Pakistan.

6.23 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Contractor's Records].

6.24 Workers' Organizations

The Contractor shall comply with the relevant labour laws of Pakistan which recognize workers' rights to form and to join workers' organizations/Trade Union of their choosing and to bargain collectively without interference.

6.25 Non-Discrimination and Equal Opportunity

The Contractor shall not make decisions relating to the employment or treatment of Contractor's Personnel on the basis of personal characteristics unrelated to inherent job requirements. The Contractor shall base the employment of Contractor's Personnel on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices. Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Contractor shall provide protection and assistance as necessary to ensure nondiscrimination and equal opportunity, including for specific groups such as women, persons with disabilities, migrant workers and children (of working age in accordance with Sub-Clause 6.22).

6.26 Epidemics

In the event of any out-break of illness of epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government or the local medical or sanitary authorities for the purpose of overcoming the same.

7.7 Ownership of Plant and Materials

The following is added before the first paragraph:

"Except as otherwise provided in the Contract,"

The following is added at the end of the Sub-Clause:

"No Plant and/or Materials that is the property of the Employer shall be removed from the Site. If it becomes necessary to:

- (i) remove any item of such Plant from the Site for the purposes of repair, the Contractor shall give a Notice, with reasons, to the Engineer requesting consent to remove the defective or damaged item off the Site. This Notice shall clearly identify the item of defective or damaged Plant, and shall give details of: the defect or damage to be repaired; the place to which defective or damaged item of Plant is to be taken for repair; the transportation to be used (and insurance cover for such transportation); the proposed inspections and testing off the Site; and the planned duration required before the repaired item of Plant shall be returned to the Site. The Contractor shall also provide any further details that the Employer may reasonably require; or
- (ii) replace any item(s) of such Plant and/or Materials, the Contractor shall give a Notice, with reasons, to the Engineer clearly identifying the item(s) of Plant and/or Materials to be replaced, and giving details of the due date of delivery to the Site of the replacement item(s).

Where any item of Plant and/or Materials has become the property of the Employer under this Sub-Clause before it has been delivered to the Site, the Contractor shall ensure that such an item is not moved except for its delivery to the Site.

The Contractor shall indemnify and hold the Employer harmless against and from the consequences of any

defect in title or encumbrance or charge (except any reasonable restriction arising from the intellectual property rights of the manufacturer or producer) on any item of Plant and/or Materials that has become the property of the Employer under this Sub-Clause."

The following Sub-Clause 7.9 is added after Sub Clause 7.8:

7.9 Use of Pakistani Materials and Services

The Contractor shall, so far as may be consistent with the Contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in Pakistan and services available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

8.1 Commencement of Works

The following is added before the first paragraph:

"After signing of the Contract Agreement by both Parties," and thereafter the word "The" is replaced with the word "the".

8.5 Extension of Time for Completion

The following is added after paragraph (c):

"for last five years".

The following Sub-Clause 8.14 is added after Sub-Clause 8.13:

8.14 Incentives For Early Completion

If Contract Data does not state applicability of incentives for early completion, this Sub-Clause shall not apply.

The Contractor shall be entitled subject to Sub-Clause 20.2 [Claims for Payment and/or EOT] to bonus payment if the Works and/or each Section is completed earlier than the Time for Completion for the Works or Section (as the case may be). The amount of bonus for early completion of the Works and/or each Section shall be up to a limit and at a rate to 50% of the relevant limit and rate of delay damages prescribed in Contract Data and shall be paid for every day which shall elapse between the relevant Date of Completion of the Works or Section and the relevant Time for Completion.

For the purposes of calculating any bonus payment, the applicable Time for Completion stated in the Contract Data is fixed and no adjustments of this time by reason of granting an EOT will be allowed.

The following Sub-Clause 11.12 is added after Sub-Clause 11.11:

11.12 Supervisory Assistance During DNP

If provided under the Schedule of Prices, the Contractor shall provide supervisory assistance to the Employer during the DNP for the Works. Such supervisory assistance shall be as described in the Specification for the purpose of supporting the Employer's operation and maintenance of the Plant for the period specified in the Schedule of Prices after the Date of Completion.

12.2 Method of Measurement

The following paragraph is added at the end of the Sub-Clause:

"Summary of measured quantity for payment shall be delineated item-wise under four heads namely; "Schedule of Prices Quantity", "Quantity Executed To-date", "Quantity Certified Previously" and "Net Quantity Executed under this Certificate".

12.3 Valuation of the Works

The following text is added at the end of fifth paragraph of the Sub-Clause:

“Sum of overhead charges and profit for sub-paragraph (a) shall be Twenty Five percent (25%)”.

13.4 Provisional Sums

The following paragraph is inserted as the penultimate paragraph:

“The Provisional Sum shall be used to cover the Employer’s share of the DAAB members’ fees and expenses, in accordance with Clause 21. No prior instruction of the Engineer shall be required with respect to the work of the DAAB. The Contractor shall submit the DAAB members’ invoices and the satisfactory evidence of having paid 100% of such invoices as part of the substantiation of those Statements submitted under Sub-Clause 14.3.

13.6 Adjustments for Changes in Laws

The following paragraphs are added at the end of the Sub-Clause:

“Notwithstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the Table of Adjustment Data in accordance with the provisions of Sub-Clause 13.7 [Adjustments for Changes in Cost].”

14.1 The Contract Price

The following is added at the end of the Sub-Clause:

“Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts, imported by the Contractor for the sole purpose of executing the Contract shall be temporarily exempt from the payment of import duties and taxes upon initial importation, provided the Contractor shall post with the customs authorities at the port of entry an approved re-export bond or bank guarantee, valid until the Time for Completion plus six months, in an amount equal to the full import duties and taxes which would be payable on the assessed imported value of such Contractor's Equipment and spare parts, and callable in the event the Contractor's Equipment is not re-exported from the Country on completion of the Contract. A copy of the bond or bank guarantee endorsed by the customs authorities shall be provided by the Contractor to the Employer upon the importation of individual items of Contractor's Equipment and spare parts. Upon re-export of individual items of Contractor's Equipment or spare parts, or upon the completion of the Contract, the Contractor shall prepare, for approval by the customs authorities, an assessment of the residual value of the Contractor's Equipment and spare part to be re-exported, based on the depreciation scale(s) and other criteria used by the customs authorities for such purposes under the provisions of the applicable Laws. Import duties and taxes shall be due and payable to the customs authorities by the Contractor on (a) the difference between the initial imported value and the residual value of the Contractor's Equipment and spare parts to re-exported; and (b) on the initial imported value of the Contractor's Equipment and spare parts remaining in the Country after completion of the Contract. Upon payment of such dues within 28 days of being invoiced, the bond or bank guarantee shall be reduced or released accordingly; otherwise the security shall be called in the full amount remaining.”

[The Employer may change or delete this Sub-Clause as per Project requirements]

14.2 Advance Payment

14.2.1 Advance Payment Guarantee

The entity issuing the Advance Payment Guarantee and its form shall be as under:

The Advance Payment Guarantee shall be in the form of Guarantee issued by (a) a Scheduled Bank in Pakistan or (b) a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan or (c) an Insurance Company listed in the Contract Data and rated by PACRA/VIS of rating as provided in Table below:

Accepted Contract Amount (In Eq. million PKR) Minimum Rating of Insurance Companies

Up to 1000 A (+)

1001 to no limit AA

In case of Joint Venture, the Advance Payment Guarantee(s) shall be in the name of the Joint Venture or in the name of Lead/either firm of the JV or in ratio of shares of the individual JV partners.

14.6 Issue of IPC

14.6.1 The IPC

In the first line of the 1st paragraph the words “28 days” are substituted by “14 days”.

14.7 Payment

The words “or through crossed cheque in favour of the Contractor or JV partners. The Payment to JV partners shall be made at the request of the Joint Ventures in the ratio of their shares specified by them” are added at the end of the Sub-Clause.

14.8 Delayed Payment

In the first paragraph, third line, the words “compounded monthly” are deleted.

The text of 2nd paragraph is deleted and substituted with the following:

“The Employer shall pay to the Contractor compensation at the rate stated in the Contract Data.”

14.9 Release of Retention Money

The following is added at the end of Sub-Clause 14.9:

“Unless otherwise stated in 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 by the Engineer, the Contractor shall be entitled to substitute a guarantee, in the form annexed to the Particular Conditions or in another form approved by the Employer and issued by a schedule bank selected by the Contractor, for the second half of the Retention Money. The Contractor shall ensure that the guarantee is in the amounts and currencies of the second half of the Retention Money and is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects, as specified for the Performance Security. On receipt by the Employer of the required guarantee, the Engineer shall certify, and the Employer shall pay the second half of the Retention Money. The release of the second half of the Retention Money against a guarantee shall then be in lieu of the release after the latest of the expiry dates of the Defects Notification Periods. The Employer shall return the guarantee to the Contractor within 21 days after receiving a copy of the Performance Certificate.

If the Performance Security required under Sub-Clause 4.2 is in the form of a demand guarantee, and the amount guaranteed under them when the Taking-Over Certificate is issued is more than half of the Retention Money, then the Retention Money guarantee will not be required. If the amount guaranteed under the Performance Security when the Taking-Over Certificate is issued is less than half of the Retention Money, the Retention Money guarantee will only be required for the difference between half of the Retention Money and the amount guaranteed under the Performance Security.

15.2 Termination for Contractor’s Default

15.2.1 Notice

Following text is added at the end of sub-paragraph (h) of this Sub-Clause:

“For the purposes of this Contract, corrupt and fraudulent practices have been defined in Public Procurement Rules 2004.”

15.2.3 After Termination

The word “and” at the end of sub-paragraph (ii) of paragraph (b) is deleted the following paragraph is added after sub-paragraph (iii):

“(iv) all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in

accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer's Equipment], and”

15.4 Payment after Termination

The following text is added at the end of this Sub-Clause:

“The Employer shall be entitled to sell any of the Contractor’s Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any debt due from the Contractor to the Employer under this Clause including any outstanding payments to the Subcontractors.

16.2 Termination by Contractor

16.2.1 Notice

The sub-paragraph (j) is deleted in its entirety.

At the end of sub-paragraph (i) “; or” is replaced with “.” and at the end of sub-paragraph (h) “;” is replaced with “; or”.

In sub-paragraph (f) “84 days” are replaced with “180 days” and text “for reasons not attributable to the Contractor” is added at the end.

16.3 Contractor’s Obligations After Termination

Sub-paragraph (c) is deleted and replaced with:

“(c) deliver to the Engineer all Employer-Supplied Materials and/or Employer's Equipment made available to the Contractor in accordance with Sub-Clause 2.6 [Employer-Supplied Materials and Employer’s Equipment]; and

(d) remove all other Goods from the Site, except as necessary for safety, and leave the Site.”

17.1 Responsibility for Care of the Works

After the two instances of “Goods” in the last paragraph, the words “Employer-Supplied Materials and/or Employer's Equipment” are added.

The following Sub-Clause 17.7 is added after Sub-Clause 17.6:

17.7 Use of Employer’s Accommodation/Facilities

The Contractor shall take full responsibility for the care of the items of the Employer’s facilities and/or accommodation, if any, as detailed in the Specification, from the date of use and/or occupation by the Contractor until the date on which such use and/or occupation is re-vested in the Employer.

If any loss or damage happens to any of the above items during a time while the Contractor is responsible for its care, arising from any cause other than a cause for which the Employer is responsible or liable, the Contractor shall promptly rectify the loss or damage at the Contractor’s risk and cost.

18.1 Exceptional Events

The words “or disorder” are replaced with “disorder or sabotage” in sub-paragraph (c) of the Clause.

18.4 Consequences of an Exceptional Event

The following is added at the end of sub-paragraph (b) after deleting the “.”:

“, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Exceptional Events, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 19.2 [Insurance to be provided by the Contractor].”

18.5 Optional Termination

In sub-paragraph (c), the words “and necessarily” are added after the words “was reasonably”.

19.1 General Requirements

Following text is added at the end of first paragraph:

“The Contractor shall immediately after the date of the Letter of Acceptance submit the draft of insurance policies for the Employer’s consent.”

Following text is added at the end of third paragraph:

“The Contractor shall, within the respective periods stated in the Contract Data submit to the Engineer and the Employer a) evidence that the insurances described in this Clause have been effected, and b) copies of policies of the insurances described in Sub-Clauses 19.2.1, 19.2.4 and 19.2.5.”

19.2 Insurance to be provided by the Contractor

19.2.5 Injury to employees

The words “sickness, disease” are deleted in the third line of first paragraph.

The following Sub-Clause is added after Sub-Clause 19.2.6:

19.2.7 Insurance Company

“The Contractor shall be obliged to place all insurances described in this Clause with insurers listed in the Contract Data and rated by PACRA/VISOfrating as provided in Table below:

Accepted Contract Amount (In Eq. million PKR)	Minimum Rating of Insurance Companies
Up to 1000	A (+)
1001 to no limit	AA

21.6 Arbitration

The word “international” is deleted in the sixth line of first paragraph. The text of sub-paragraph (a) is substituted with the following:

“the Dispute shall be finally settled under the Rules of Arbitration, specified in the Contract Data;”

The following Clauses are added after Clause 21

22 Custom Duty

[Employer may incorporate provisions where applicable. However, in order to make the bid more balanced, the payment of Customs Duties should be the responsibility of the Employer.]

23 Taxes

The Contractor, Subcontractors and their employees shall be liable to pay income tax, withholding tax, super tax and other taxes on income arising out of the Contract. The rates and prices as stated in the contract shall be deemed to cover all such taxes.

24 Integrity Part

If it is found and established at any stage that the Contractor or any of his Subcontractors, agents or servants have violated or involved in violation of the Integrity Pact signed by the Contractor then the Employer shall be entitled to :

(a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder’s fee or kickback given by the Contractor or any of his Subcontractors, agent or servants;

(b) terminate the Contract; and

(c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agent or servants.

The termination under sub-paragraph(b) of this Sub-Clause shall proceed in the manner prescribed under

Sub-Clause 15.1 to 15.4 and the payment under Sub-Clause 15.4 shall be made after having deducted the amounts due to the Employer under sub-paragraph(a) and (c) of this Sub-Clause.

Appendix General Conditions of Dispute Avoidance/Adjudication Agreement

12 Disputes Under DAAB Agreement

In the first paragraph, third, fourth and fifth line, the text “under the Rules of Arbitration of the International Chamber of Commerce 2017.....shall apply” is substituted with “under the Arbitration Act 1940 by sole arbitrator appointed by the Managing Director Public Procurement Regulatory Authority or Chairman Pakistan Engineering Council.”





Bid Securing Declaration

FORM OF BID SECURING DECLARATION

Date:

No.:

Alternative No.: **P128125**

To: **Daanish University Trust (Daanish University Trust), Section Officer Room 227, 2nd Floor, D-Block, Pak Sectt., Islamabad Capital Territory**

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid-Securing Declaration.

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

- (a) have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or
- (b) having been notified of the acceptance of our Bid by the Procuring agency/Employer during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Name of the Bidder*

Name of the person duly authorized to sign the Bid on behalf of the Bidder** _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

**: Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]



Contract Form

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the “Agreement”) made on the _____ day of _____ (month) 20____ between **Daanish University Trust (Daanish University Trust), Section Officer Room 227, 2nd Floor, D-Block, Pak Sectt., Islamabad Capital Territory** (hereinafter called the “Employer”) of the one part and _____ (hereinafter called the “Contractor”) of the other part.

WHEREAS the Employer is desirous that certain Works, viz., **Construction of Pre-Engineered Building (PEB) for Industry Hub – Daanish University, Islamabad (P128125)** should be executed by the Contractor and has accepted a Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents, in the order of priority, after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement:
 - a) This Contract Agreement;
 - b) The Letter of Acceptance;
 - c) The Letter of Bid;
 - d) The Particular Conditions Part A - Contract Data;
 - e) The Particular Conditions Part B - SpecialProvisions;
 - f) The General Conditions;
 - g) The Specifications Part A - SpecificProvisions;
 - h) The Specifications Part B- Technical Provisions;
 - i) The Drawings;
 - j) The Completed Schedules to Bid including Schedule of Prices;
 - k) the JV Undertaking (if the Contractor is a JV); and
 - l) [Employer to insert any other documents forming part of the Contract]

The addenda/corrigenda,if any, (Excluding part relating to Instructions to Bidders alongwith Bidding Data) shall be deemed to have been incorporated at the appropriate places in the “Documents forming 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 execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, 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.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

Signature of the Contactor Signature of Employer

(Seal) (Seal)

Signed, Sealed and Delivered in the presence of:

Witness Witness

(Name, Title and Address) (Name, Title and Address)



DAAB Agreement

[All italicised text and any text within square brackets (except sub-clause headings) in this form of agreement is for use in preparing the form and should be deleted from the final product].

Name and details of the Contract Construction of Pre-Engineered Building (PEB) for Industry Hub – Daanish University, Islamabad

This Agreement made the _____ day of _____ [month], _____ [year], between

Name and contact details of the Employer **Daanish University Trust (Daanish University Trust), Section Officer**

Room 227, 2nd Floor, D-Block, Pak Sectt., Islamabad Capital Territory
+92-321-511-1688
Procurements@daanish.edu.pk

Name and contact details of the Contractor _____ (name)
 _____ (address)
 _____ (telephone)
 _____ (email / other contact details);

Name and contact details of the DAAB Member _____ (name)
 _____ (address)
 _____ (telephone)
 _____ (email / other contact details);

(“DAAB Agreement”)

Whereas:

- A. the Employer and the Contractor have entered (or intend to enter) into the Contract;
- B. under the Contract, the “DAAB” or “Dispute Avoidance/Adjudication Board” means the sole member or three members (as stated in the Contract Data of the Contract) so named in the Contract, or appointed under Sub-Clause 21.1 [Constitution of the DAAB] or Sub-Clause 21.2 [Failure to Appoint DAAB Members] of the Conditions of Contract;
- C. the Employer and the Contractor desire jointly to appoint the above-named DAAB Member to act on the DAAB as:
- a. the sole member of the DAAB, and where this is the case, all references to the “Other Members” do not apply; or
- b. one of three members / chairman [delete the one which is not applicable] of the DAAB and, where this is the case, the other two persons are:

_____ (name) _____ (name)
 _____ (address) _____ (address)
 _____ (telephone) _____ (telephone)
 _____ (email/ other contact details) _____ (email/other contact details)

the “**Other Members**”; and

D. the DAAB Member accepts this appointment.

The Employer, Contractor and DAAB Member jointly agree as follows:

1. The conditions of this DAAB Agreement comprise:

(a) Clause 21 [Disputes and Arbitration] of the Conditions of Contract, and any other provisions of the Contract that are applicable to the DAAB’s Activities; and

(b) the “General Conditions of Dispute Avoidance/Adjudication Agreement”, which is appended to the General Conditions of the “Conditions of Contract for Construction” Second Edition 2017 published by FIDIC (“GCs”), as amended and/or added to by the following provisions.

2. [Details of amendments to the GCs, if any. For example:

In the procedural rules annexed to the GCs, Rule _ is deleted and replaced by: “ ... “]

3. The DAAB Member shall be paid in accordance with Clause 9 of the GCs. The currency of payment shall be _____.

In respect of Sub-Clauses 9.1 and 9.2 of the GCs, the amounts of the DAAB Member’s monthly fee and daily fee shall be:

monthly fee _____ per month, and

daily fee of _____ per day

(or as otherwise set under Sub-Clause 9.3 of the GCs).

4. In consideration of the above fees, and other payments to be made to the DAAB Member in accordance with the GCs, the DAAB Member undertakes to act as DAAB Member in accordance with the terms of this DAAB Agreement.

5. The Employer and the Contractor shall be jointly and severally liable for the DAAB Member’s fees and other payments to be made to the DAAB Member in accordance with the GCs.

6. This DAAB Agreement shall be governed by the law of _____ (if not stated, the law that governs the Contract under Sub-Clause 1.4 of the Conditions of Contract).

SIGNED by: _____ SIGNED by: _____ SIGNED by: _____

Print name: _____ Print name: _____ DAAB Member

Title: _____ Title: _____ Title: _____

for and on behalf of the

Employer for and on behalf of the

Contractor

in the presence of in the presence of in the presence of

Witness: _____ Witness: _____ Witness: _____

Name: _____ Name: _____ Name: _____

Address: _____ Address: _____ Address: _____

Date: _____ Date: _____ Date: _____

EPADS

FORM OF MOBILIZATION ADVANCE GUARANTEE/ BOND

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Employer')

has entered into a Contract for _____

(Particulars of Contract)

with _____ (hereinafter called the "Contractor").

AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Pak Rupees _____ (PKR _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Employer has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, _____

(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the Employer agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Employer for payment not exceeding the aforementioned amount.

Notice in writing of any default, on the part of the Contractor, of which the Employer at his discretion of making decision, shall be given by the Employer to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____ whichever is earlier.

(Date)

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of PKR _____ (Pak Rupees _____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor

agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

Guarantor
(Scheduled Bank/ Insurance Company)

Signature _____

Name _____

Title _____

WITNESS:

1. _____

Corporate Secretary (Seal) Corporate Guarantor (Seal)
2. _____

Name, Title & Address



Retention Money Security Demand Guarantee

_____ [Guarantor letterhead or SWIFT identifier code]

Beneficiary: _____ [Insert name and Address of Employer]

Date: _____ [Insert date of issue]

RETENTION MONEY GUARANTEE No.: [Insert guarantee reference number]

Guarantor: [Insert name and address of place of issue, unless indicated in the letterhead]

We have been informed that _____ [insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called "the Contractor") has entered into Contract No. _____ [insert reference number of the contract] dated _____ with the Employer, 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, the Employer retains moneys up to the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, payment of [insert the second half of the Retention Money or if the amount guaranteed under the Performance Guarantee when the Taking-Over Certificate is issued is less than half of the Retention Money, the difference between half of the Retention Money and the amount guaranteed under the Performance Security and, if required, the ES Performance Security] is to be made against a Retention Money guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ [insert amount in figures] () [amount in words] upon receipt by us of the Employer's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without your needing to prove or show grounds for your demand or the sum specified therein.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Employer's bank stating that the second half of the Retention Money as referred to above has been credited to the contractor on its account number _____ at _____ [insert name and address of Contractor's bank].

This guarantee shall expire no later than the day of, 2..., and any demand for payment under it must be received by us at the office indicated above on or before that date.

[signature(s)]

Note: *All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.*



Integrity Pact

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract

Number: Contract

Value: Contract Title:

Dated:

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Employer:

Signature:

[Seal]

Name of Bidder/Contractor:

Signature:

[Seal]



Performance Guarantee Form

FORM OF PERFORMANCE SECURITY

Guarantee No. _____

Executed on _____

Expiry date _____

Name _____ of _____ Guarantor _____ with _____ address: _____

Name _____ of _____ Principal _____ (Contractor) _____ with
address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the **Daanish University Trust (Daanish University Trust), Section Officer Room 227, 2nd Floor, D-Block, Pak Sectt., Islamabad Capital Territory** (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____

(Name of Contract) for the **Construction of Pre-Engineered Building (PEB) for Industry Hub – Daanish University, Islamabad (P128125)**

_____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 11, Defects After Taking Over, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defense under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated

above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall decide, whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Guarantor

(Schedule Bank/ Insurance Company)

Signature: _____

Name: _____

Title: _____

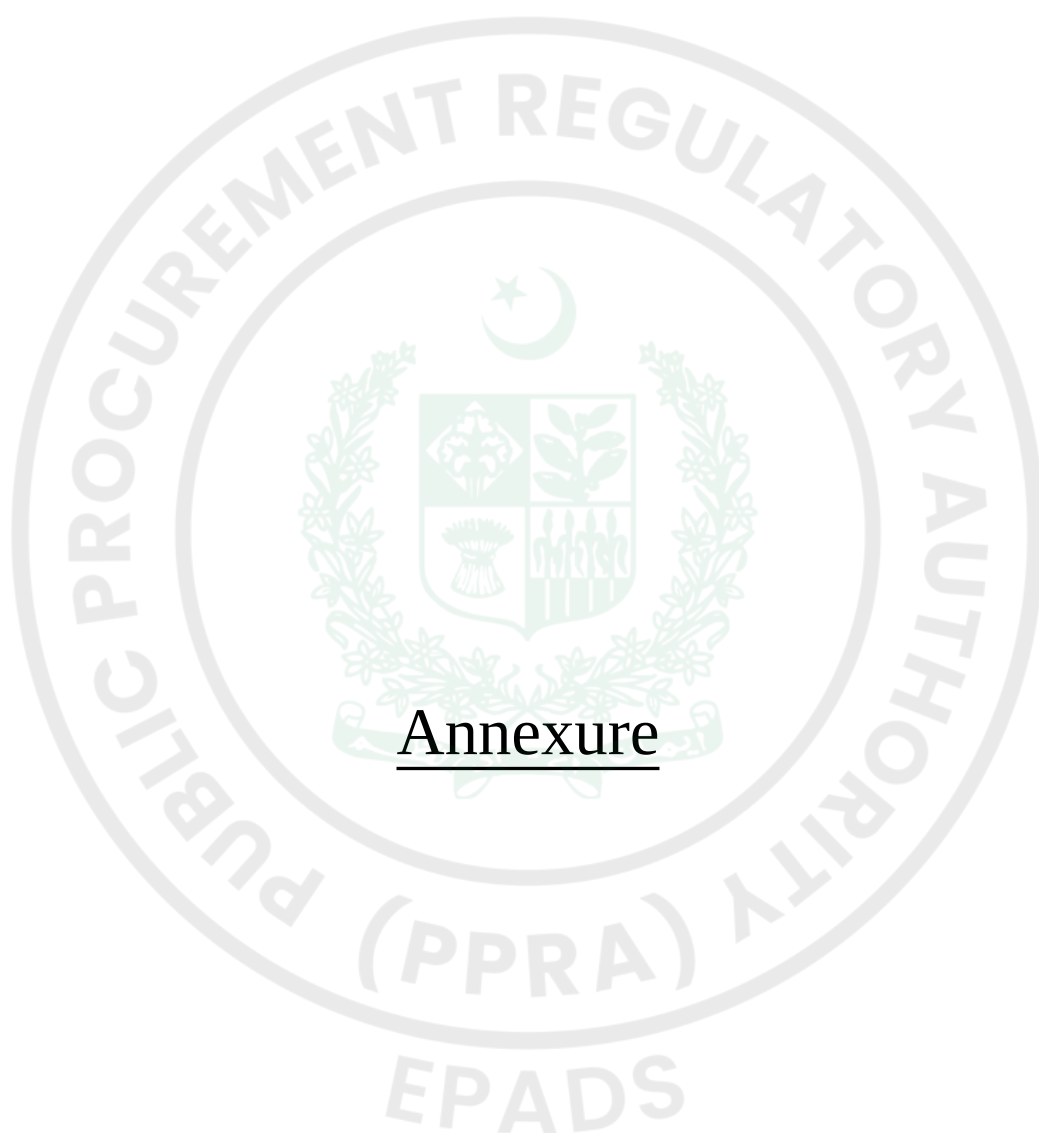
Corporate Guarantor (Seal)

WITNESS:

1. _____

2. _____

Name, Title & Address



Annexure

Detailed evaluation criteria

Detailed evaluation criteria (as given in the EPADS) for easy / convinience of the prospective bidder. The scoring mentioned here shall prevail

Information (Read-Only)

See Form Under Additional Forms and Documents: **Detailed evaluation criteria** (page number: 63)

Modified BoQ (CorrigenduM)

This Annexures contains the detailed BOQ for which the bidders have to fill each item

Dont attach this filled annexure along with Technical Bid. only Attach this with Financial form

Prepare the Financial Bid strictly using the BOQ format uploaded on EPADS via corrigendum. Bidders must quote rates for every item without leaving any unpriced, omitting items, or modifying quantities, units, descriptions, or formats.

The quoted prices shall be inclusive of all taxes

The procuring committee will check airthmetic correction.

Financial Submission (Vendor)

Document Required

See Form Under Additional Forms and Documents: **Modified BoQ (CorrigenduM)** (page number: 69)

Pre-Bid Meeting Minutes

Minutes of the Pre-Bid meeting held on September 24, 2026 attached for the information. These minutes will form integral part of the bidding document.

Information (Read-Only)

See Form Under Additional Forms and Documents: **Pre-Bid Meeting Minutes** (page number: 124)



Procurement Forms

Past Construction Experiences

Please fill the form

See Form Under Additional Forms and Documents: **Past Construction Experiences** (page number: 130)

Financial Resources

See Form Under Additional Forms and Documents: **Financial Resources** (page number: 136)

Past Experience and Completed Contracts

See Form Under Additional Forms and Documents: **Past Experience and Completed Contracts** (page number: 137)

Historical Contract Non-Performance, and Pending Litigation and Litigation History

See Form Under Additional Forms and Documents: **Historical Contract Non-Performance, and Pending Litigation and Litigation History** (page number: 138)

Financial Capacity and Net Worth Evaluation Form

See Form Under Additional Forms and Documents: **Financial Capacity and Net Worth Evaluation Form** (page number: 140)

Average Annual Turnover

See Form Under Additional Forms and Documents: **Average Annual Turnover** (page number: 142)





Additional Forms and Documents

TECHNICAL BID EVALUATION CRITERIA

Design & Construction of Pre-Engineered Building (PEB) for Industry Hub

Project Brief: Daanish University Islamabad, intends to build an Industry Hub building on a FAST TRACK basis. The scope of works includes design, fabrication, supply and erection of a PEB (Gable, Multi-Span frame) of approximately **40,000 Sft**, with mezzanine floor, staircases, canopies, and solar-panel-ready roof (0.25 kN/m² additional collateral load).

Due to fast-track nature of the Project, bidding through Joint Ventures (JV), Consortiums, Associations, or any other form of joint bidding shall not be permitted. The Bidder shall be a single legal entity with full responsibility and capacity to execute the Works.

Evaluation Basis: Single-stage, two-envelope bidding (Technical + Financial). Only bidders clearing **both** the Mandatory Eligibility (Pass/Fail) check and the minimum scoring thresholds below shall have their Financial Proposal opened.

1. MANDATORY ELIGIBILITY REQUIREMENTS

- a. A civil construction firm with Valid registration with the Pakistan Engineering Council (PEC) , in C-1 category or higher and with valid registration codes.

Bidder should have following PEC codes:

- a. BC – 01: Prefabricated Buildings
- b. CE – 01: Roads & Pavements
- c. CE – 10: General Civil Engineering Works
- d. EE – 01: Sound System
- e. EE – 02: Security & Surveillance System
- f. EE – 03: Building Automation & Energy Generation System
- g. EE – 04: Low Voltage System
- h. EE – 06: Specialized Lighting System
- i. ME – 01: HVAC System
- j. ME – 02: Fire Detection & Suppression System
- k. ME – 04: Building Automation System

- b. Valid NTN, active status on FBR Active Taxpayers List (ATL), and General Sales Tax (GST)/Provincial Revenue Authority (PRA) registration
- c. Firm in operation and legally registered (SECP/Registrar of Firms, as applicable) for a minimum of 5 years
- d. No current blacklisting by any Federal/Provincial government department.
- e. Bid Security in the form of Pay order / Call Deposit Receipt (CDR) equal to Rs. 2,000,000 submitted in the specified form and validity
- f. Complete Technical Proposal submitted per the required format, with all documentary evidence listed against each criterion below
- g. Undertaking to furnish Performance Security of 10% of the Contract Price, to be finalized against the actual awarded contract value) within the stipulated period after Letter of Acceptance.

The evaluation of only those bidders will be done who have cleared all the basic eligibility mandatory requirements. Bids of applicants, who do not have the required PEC License and / or have not provided the above mandatory documents, will be declared as non-responsive and will not be processed further; and their Financial Bids will be returned un-opened.

2. TECHNICAL EVALUATION AND MINIMUM QUALIFYING SCORES

#	Evaluation Criterion	Max Marks	Minimum Required per Criterion (50%)
1	Firm Experience of Similar Projects	20	10
2	Financial Soundness	20	10
3	PEB Design Capability	20	10
4	PEB Fabrication Methodology & In-House Facility	20	10
5	PEB Erection Capability (Manpower & Equipment)	10	5
6	Demonstrated Fast-Track Completion Experience (≤ 6 months)	10	5
	TOTAL	100	Mandatory aggregate minimum: 70/100

Disqualification rule: A bid shall be declared **technically non-responsive**, and its Financial Proposal shall NOT be opened, if either of the following occurs:

(a) The bidder scores **below 50% of the maximum marks allocated to ANY single criterion**, applied criterion-by-criterion; OR

(b) The bidder's **overall aggregate score is below 70/100**, even where every individual criterion clears its 50% floor.

Both conditions must be satisfied: all six per-criterion floors met, **and** an aggregate score of at least 70/100, for a bid to be technically responsive and proceed to Financial Proposal opening.

3. DETAILED CRITERIA & EVIDENCE REQUIRED

Each sub-criterion below is scored against **stated, verifiable numeric thresholds**, not subjective judgment, so that scoring is auditable and defensible if challenged during the bid evaluation report / grievance redressal process (as required under PPRA Rule 31 grievance provisions).

3.1 Firm Experience of Similar Projects (20 points)

Sub-criterion	Max	Scoring Band
3.1.1 - Number of completed PEB projects ≥40,000 Sft in Pakistan, in the last 5 years	10	5 or more projects = 10 4 projects = 8 3 projects = 6 2 projects = 4 1 project = 2 0 projects = 0
3.1.2 - Experience with institutional/educational PEB buildings incorporating mezzanine floors and multi-purpose halls/seminar spaces	6	2 or more such projects = 6 1 project = 3 ;none = 0
3.1.3 - Prior execution of solar-panel-ready or walkable-roof PEB (collateral load ≥0.20 kN/m ² for solar/utility loading)	4	1 or more projects = 4 claimed in proposal but not evidenced = 0

Evidence required: Client completion certificates , signed contracts with values and dates, site photographs, client contact person and phone/email for verification calls.

3.2 Financial Soundness (20 points)

Sub-criterion	Max	Scoring Band
3.2.1 Average annual turnover (last 3 audited financial years)	10	≥PKR 1,500 Million = 10 PKR 1000–1,499 Million = 5 PKR 500–999 Million = 2.5

		below PKR 499 Million = 0
3.2.2 Bank credit line certificate, value confirmed by issuing bank	5	≥PKR 500 Million certified = 5 PKR 250–499 Million = 2.5 Below PKR 249 Million = 0
3.2.3 Current ratio / working capital position (from latest audited balance sheet)	5	Current ratio ≥1.5 = 5 1.0–1.49 = 2.5 <1.0 = 0

Evidence required: Audited financial statements (3 years), bank credit line certificate (dated within 3 months of bid submission)

3.3 PEB Design Capability (20 points)

Sub-criterion	Max	Scoring Band
3.3.1 In-house structural design team and licensed design software (e.g., MBS-based PEB design software, STAAD.Pro, Tekla Structures)	10	≥3 structural engineers + 3 licensed PEB design software, in-house = 10 2 engineers + 2 software = 5 Outsourced design only = 0
3.3.2 Prior design experience matching or exceeding this project's governing design parameters (160 km/h wind speed, Seismic Zone 2B, 0.25 kN/m ² solar collateral load, 3.0 kN/m ² mezzanine live load)	5	All 4 parameters matched/exceeded on a prior project = 5 3 matched = 3 0–2 matched = 0
3.3.3 3D modeling and MEP/architectural clash-coordination capability, with sample output submitted	5	Sample 3D model/clash report submitted = 5

Evidence required: CVs of design team, software license certificates, 3D model extract for a comparable project.

3.4 PEB Fabrication Methodology & In-House Fabrication Facility (20 points)

Sub-criterion	Max	Scoring Band
3.4.1 Ownership and automated SAW (welding) line for PEB fabrication + Detailed Methodology	8	Owned facility with automated SAW (welding) line for PEB fabrication & Detailed Methodology = 8 Leased or subcontracted facility = 0
3.4.2 Machinery & plant inventory: CNC plasma/laser cutting, built-up section (H-beam) line, Sheet Profiling / rolling machine, sand-blasting and paint shop	5	All machine categories owned = 5 None/any outsourced = 0
3.4.3 QA/QC system and material traceability (mill test certificates for ASTM	4	Documented QA/QC manual + sample MTCs (minimum two material

A572M/A653M/A792M/A36/A325M) plus AWS-qualified welders		specification)+ welder qualification certificates all submitted = 4 Any missing or 0 submitted = 0
3.4.4 Surface preparation & paint system sand-blasting	3	In-house, surface finish and paint thickness testing facility = 3 Outsourced or non-compliant thickness measurement /system or unclear = 0

Evidence required: Factory ownership documents, machinery list with make/model/year and photographs, QA/QC manual, sample mill test certificates, welder qualification certificates (AWS D1.1 or equivalent), paint system technical datasheets.

3.5 PEB Erection Capability: Manpower & Equipment (10 points)

Sub-criterion	Max	Scoring Band
3.5.1 Owned/leased cranes matched to frame spans and eave height (minimum one crane ≥30-ton capacity, plus a secondary crane/manlift)	3	Crane fleet meeting requirement = 3 No equipment plan = 0
3.5.2 Dedicated erection crews (minimum 2 crews of ≥15 workers each, including certified riggers and AWS-qualified site welders) available for mobilization within the stated period	4	2 full crews with certifications listed by name = 4 1 Crew = 2 Crew not identified/insufficient = 0
3.5.3 Site HSE plan including fall-protection methodology matching the 900mm MS fall-protection spec, and 3-year safety incident record	3	Detailed HSE plan + zero lost-time incidents in last 3 years (with client certification) = 3 HSE plan present, incident record disclosed = 2 No HSE plan or concealed incident history = 0

Evidence required: Equipment ownership/registration or signed lease/availability letters, named crew rosters with certifications, HSE policy document and method statement for fall protection, safety performance record.

3.6 Demonstrated Fast-Track Completion Experience (≤6 months) (10 points)

Sub-criterion	Max	Scoring Band
3.6.1 Verified PEB projects of ≥25,000 Sft completed within 6 months, design-to-handover, in the last 3 years	4	2 or more verified projects = 4 1 verified project = 2 None = 0
3.6.2 Detailed construction programme (bar chart/critical path) demonstrating achievability of completion by March 22, 2027 for Shell and Core (40,000 Sft scope)	3	Detailed, Critical Path programme with parallel-path fabrication/civil/erection sequencing, consistent with the tonnage and crew numbers claimed elsewhere in the bid = 3 Generic programme = 1 Not submitted or internally inconsistent with claimed capacity = 0
3.6.3 Resource mobilization plan: number of simultaneous fabrication batches, number of erection crews deployed concurrently, logistics/transport plan	3	Fully quantified plan (batches, crews, transport schedule) = 3 Partial plan = 1 Not submitted = 0

Evidence required: Completion certificates showing contract start/end dates for cited fast-track projects, a project-specific preliminary programme (Gantt/CPM) for this project, resource mobilization narrative with numbers matching Sections 3.4 and 3.5.

TENDER DOCUMENTS

BILL OF QUANTITIES (TO BE QUOTED)

Civil, PEB & Finishing Works • Electrical Works • Plumbing & Fire-Fighting Works • HVAC Works

Client	DAANISH UNIVERSITY
Project	INDUSTRY HUB (PEB BUILDING)
Location	NARC, PARK ROAD, ISLAMABAD
Date	23-09-2026
Covered Area	Ground Floor 26,092 Sft + Mezzanine Floor 23,655 Sft = 49,747 Sft (approx.)

CONTENTS

Grand Summary of Cost
Part A – Structure (Civil & PEB) & Interior / Finishing Works BoQ
Part B – Electrical Works BoQ
Part C – Plumbing & Fire-Fighting Works BoQ
Part D – HVAC Works BoQ
Annexures I–IV – Material Approved Lists (MAL)

Note: Rates shall be quoted in figures and in words for every item; in case of discrepancy, the rate in words shall prevail.

Name of Bidder: _____ Contractor's Signature & Stamp: _____

Consultant: IMTIAZ ALI ASSOCIATES (PVT) LTD., 298-A, Upper Mall, Lahore | Ph: 042-35713215

GRAND SUMMARY OF COST (TO BE QUOTED)

Sr. No.	Description	Amount (Rs.)
A	PART A – CIVIL, STRUCTURE (PEB) & FINISHING WORKS	
A-1	Allied Grey Structure of PEB Building (Allied Civil Works)	
A-2	Pre-Engineered Building (PEB) Works	
A-3	Class Room / Seminar Room Steps – Steel Structure	
A-4	Building Architecture Works (Ground & Mezzanine Floor)	
A-5	Finishings & Interior Works – Ground Floor	
A-6	Finishings & Interior Works – Mezzanine Floor	
	Total – Part A (CIVIL, STRUCTURE (PEB) & FINISHING WORKS)	
B	PART B – ELECTRICAL WORKS	
B-1	Low Tension (LT) Switchgear	
B-2	Wiring & Conduiting	
B-3	Power Cables & Trunking System	
B-4	Fittings & Fixtures	
B-5	Fire Alarm & Detection System	
B-6	TV, Data & Voice System	
B-7	Earthing System	
B-8	Lightning Protection System	
B-9	CCTV System	
B-10	Uninterruptible Power Supply (UPS)	
B-11	Public Address System	
B-12	Diesel Generator Set	
B-13	Solar PV System	
B-14	Miscellaneous Works (Electrical)	
	Total – Part B (ELECTRICAL WORKS)	
C	PART C – PUBLIC HEALTH (PLUMBING) & FIRE-FIGHTING WORKS	
C-1	Plumbing Fixtures	
C-2	Internal Water Supply System	
C-3	Internal Sewerage, Vents & Roof Drainage Works	
C-4	Fire-Fighting System	
C-5	Miscellaneous Works (UGWT, OHWT, Septic Tank, Geysers)	
C-6	Plumbing Equipment Schedule	
	Total – Part C (PUBLIC HEALTH (PLUMBING) & FIRE-FIGHTING WORKS)	
D	PART D – HVAC WORKS	
D-1	HVAC Works (VRF System, Ventilation & Ductwork)	
	Total – Part D (HVAC WORKS)	
	GRAND TOTAL (A + B + C + D)	

Grand Total Amount in Words (Rs.): _____



PART A – CIVIL, STRUCTURE (PEB) & FINISHING WORKS

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION A-1: ALLIED GREY STRUCTURE OF PEB BUILDING (ALLIED CIVIL WORKS)							
1	Excavation	Excavation in any type of soil encountered on site, to depth not exceeding 1500mm below natural existing ground level for foundation, including separating and stacking suitable excavated material for back filling in trenches along with other approved suitable material, in layers not exceeding 9" in thickness, watering and compacting to a minimum of 90% modified AASHTO density and disposal of surplus and unsuitable material anywhere outside the building premises, Excluding the cost of working space excavation. Complete in all respects and to the direction of the Engineer.	Cft	65,765.70			
2	Anti Termite Treatment	Providing and carrying out termite proofing in foundation bed, sides of foundation, under floor and wooden surface with a solution of Ability 2.5 % EC By Hextar Group, Agenda 2.5% EC by Bayer, Thunder 5% SC by EBS and Hexagen 3.5% EC by Malaysian Care spraying the solution, after mixing of water as per manufacturers, specified mix @ 1 liter with 250 ltr of water to spray 540 Sft covered maximum area accordingly complete as per drawing, specification and instruction of the consultant engineer. (contractor to provide warranty certificate including treated area mention on it)	Sft	68,607.71			
3	Sand and Gravel Filling	Providing and laying 30% gravel and 70% local river sand mixing and filling in five layers, each layer not more than 10inch thick under foundation, watering, ramming and compacting etc, and compaction should not be less than 95% AASHTO modified density, complete in all respects and to the direction of the Engineer.	Cft	5,297.34			
4	Ghassu Filling	Providing, stacking and filling rough sand (Ghassu) from outside source under floor and excavated trenches including dressing, watering and consolidation by ramming in layers not more than 230mm in depth and compaction should not be less than 95% AASHTO modified density, complete in all respects and to the direction of the Engineer.	Cft	130,858.02			
5	PCC 11 N/mm2, 1,000 PSI Cylinder Strength Lean Concrete in Foundation	Providing and laying PCC 1:4:8 (1 part of ordinary Portland Cement, 4 parts of local sand and 8 parts of good quality margalla crush 19mm and down gauge) cement concrete with minimum 28 days cube strength of 1,000 (psi) in foundations bed and floor, including necessary form work (to be fixed at no extra cost). The quoted rate is deemed to include the cost for such scaffolding and shuttering, leveling, vibrating, compacting and curing etc. complete in all respect and to the direction of the Engineer.					
5.1		Under Foundation	Cft	3,953.28			
6	Reinforced Cement Concrete Work – RCC 21 N/mm2 (3,000 psi) Cylinder Strength	Providing and laying reinforced cement concrete for foundation, footings, beam and other parts of the structure by using approved mix having a minimum 28 days Cylinder strength of 21 N/mm2 (3,000 psi) by using of good quality margalla crush 3/4" and down gauge, 50% Lawrencepur sand and 50% Chenab sand and ordinary Portland cement, including fair face form work and its removal and including vibrating concrete, leveling and curing etc. excluding the cost of reinforcement, complete in all respects to the direction of the Engineer. Testing of concrete will be carried out as per specifications at Contractor's cost within the quoted rate.					
6.1		RCC Footing	Cft	9,819.71			
7	RCC 21 N/mm2 4,000 psi) Cylinder Strength	Providing and laying reinforced cement concrete for columns of the structure by using approved mix having a minimum 28 days Cylinder strength of 21 N/mm2 4,000 psi) by using of good quality margalla crush 3/4" and down gauge, 50% Lawrencepur sand and 50% Chenab sand and ordinary Portland cement, including fair face form work and its removal and including vibrating concrete, leveling and curing etc. excluding the cost of reinforcement, complete in all respects to the direction of the Engineer. Testing of concrete will be carried out as per specifications at Contractor's cost within the quoted rate.					

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
7.1		RCC Pedestal Footing to FFL	Cft	1,826.49			
8	Steel Reinforcement	Providing, fabricating and laying deformed steel reinforcement bars AFCCO, Aziz Steel, mughal, or approved equivalent confirming to ASTM-A-615, with guaranteed minimum yield stress of 414 N/mm ² (60,000 psi) as specified and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work. No extra / separate / additional payment shall be made for chairs, unspecified laps and 18 swg binding wire. Testing of random samples of steel reinforcement will be carried out as per specifications at Contractor's cost. The Contractor shall be required to submit the bar bending schedule prior to start of any steel reinforcement work for formal written approval by the Engineer.	Tons	50			
9	Cement Sand Plaster (Only Around the Column pedestal as required)	Providing and laying Cement Sand Plaster internal surfaces 1/2" & 3/4" thick Ratio (1:4) using ordinary Portland cement and lawrancepure sand free of dust and organic matters including making corners, grooves, edges, smooth surface and curing etc, including scaffolding complete in all respects and to the direction of the Architect / Project Director.	Sft	2,000			
10	Stone Ballast under Floor	Providing and laying Stone Ballast, 100mm thick under floor, watering, ramming and compacting etc, and compaction should not be less than 95% AASHTO modified density, complete in all respects and to the direction of the Engineer.	Sft	32,000			
11	PCC 11 N/mm², 1,000 PSI Cylinder Strength Lean Concrete	Providing and laying PCC 1:4:8 (1 part of ordinary Portland Cement, 4 parts of local sand and 8 parts of good quality Margalla crush 19mm and down gauge) cement concrete with minimum 28 days cube strength of 1,000 (psi) in foundations bed and floor, including necessary form work (to be fixed at no extra cost). The quoted rate is deemed to include the cost for such scaffolding and shuttering, leveling, vibrating, compacting and curing etc. complete in all respect and to the direction of the Engineer.					
		Under Floor 4" thick	Cft	10,656			
12	RCC Flooring 26 N/mm² (3,750 psi) Cube Strength	Providing, mixing and laying reinforced cement concrete (all concrete to be supplied by batching plant at site) for flooring in alternate panels maximum 3.600 m x 3.000 M by using approved mix. having a minimum 28 days cube strength of 26 N/mm ² (3750 psi) by using good quality Margllah or equivalent approved crush 3/4" and down gauge, 50% good quality Lawrencepur sand and good quality 50% Chenab sand or equivalent approved Sand and Ordinary Portland Cement (may take help from admixture to achieve the strength and low water cement ratio) including vibrating concrete, leveling and curing etc. excluding the cost of reinforcement, complete in all respects to the direction of the Engineer. Testing of concrete will be carried out as per specifications at Contractor's cost within the quoted rate. complete in all respects and to the direction of the Engineer.					
		RCC Flooring 125mm thick	Cft	13,440			
13	3" thick RCC 1:2:4 Screed Floor (Deck Slab of Mezzanine)	Providing and laying R.c.c 1:2:4 under floors (1 part of grey cement , 2 parts of lawrancepure sand and 4 parts of margalla crush 3/4" and down guage) cement concrete under floor laid in alternate panel of size:- 4'x4' with steel trowel finish including leveling, Compacting and curing, excluding the cost of reinforcement etc, complete in all respect and to the direction of the Architect / Project Director.	Sft	21,850.15			
14	Non Shrink Grout	Supply and place non Shrinkage cementitious grout material as specified , mixed with clean water to the required consistency for grouting of stanchion base plates, anchor bolts or where required including curing to exposed areas with appropriate curing compound, as per manufacturer's instructions complete in all respects.	Cft	70			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
15	Anchor and Structure Bolts	Fixing in position MS Steel ASTM A307 or as mentioned (Anchor-Bolts) of diameter shown in the drawings grouted with epoxy chemical (if required) by Hilti or equivalent and the application of levelling grout before placing the bearing plates as per manufacturers instructions, complete in all respects as directed by the engineer and as shown in the drawings.					
		For PEB Structure (Bolt provided by PEB Manufacturer)	Column	55			
SUB-TOTAL SECTION A-1 – Allied Grey Structure of PEB Building (Allied Civil Works) (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION A-2: PRE-ENGINEERED BUILDING (PEB) WORKS							
1		Main PEB Buildings Column & Rafters (Complete in all respects including Mezzanine Floor Columns, Beams & Joists, Staircase (03 Nos), Portal Bracings etc.) ASTM A-572M (Grade 50)					
		Supply, fabrication, transportation, and erection of steel columns in accordance with approved drawings and specifications, including base plates, connection plates, stiffeners, and all necessary accessories, comprising cutting, drilling, edge preparation, welding, and complete fabrication works as per standard engineering practices; the item includes all labor costs , handling, loading, unloading, and site shifting, along with quality control measures such as visual inspection of welds and connections; surface preparation by wire brushing/grinding to remove rust, dust, oil, or foreign material, followed by application of one coat of red oxide primer and finishing, paint as specified; erection procedures including lifting (by crane or manual), positioning, alignment, plumbing, leveling, and fixing in position using anchor bolts, high- strength bolts, or welding as per design requirements; complete in all respects including provision of materials, labor, tools, equipment, scaffolding, and safety measures as per the instructions of the Engineer in-Charge. (including Chequered Plate (5mm) on steps) With Sandblasting & Epoxy Coating (130 Microns)	kg	255,277			
2	MS Stiffners, Cable Bracings, Angle/Flange Bracings, Rod Bracings, Strut Tubes	Supply, fabrication, transportation, and erection of steel rafters including MS stiffeners, rod bracing, angle bracing, flange bracing, and strut tubes, in accordance with approved drawings and specifications, comprising connection plates, cleats, stiffeners, and all necessary accessories; the scope includes cutting, drilling, edge preparation, welding, and complete fabrication works as per standard engineering practices, including all labor costs , handling, loading, unloading, and site shifting; surface preparation by cleaning (wire brushing/grinding) to remove rust, dust, oil, or foreign material, followed by application of one coat of red oxide primer and finishing paint as specified; erection procedures including lifting, positioning, alignment, and securing/fastening the rafters to the supporting structure using bolts or welding as per design requirements; complete in all respects with all materials, labor, tools, equipment, scaffolding, and safety measures as per drawings and instructions of the Engineer-in-Charge.	Kg	2,159.30			
3	G.I Z-Purlins & GI Girts, Sag Rods, Eave Angles, Gable Angles etc	Supply, fabrication, transportation, and installation of G.I. Z-Purlins of sizes 200x22.5mm and 200x22.0mm with Z275 galvanization coating, fabricated to required lengths with all necessary laps, holes, and end connections as per approved drawings and specifications; the scope includes all labor costs , cutting, drilling, handling, loading, unloading, and site shifting; installation comprising positioning, proper alignment, leveling, and securely fixing the purlins to roof and wall members using nuts, bolts, or self-drilling screws as required; complete in all respects including all materials, labor, tools, equipment, scaffolding, and safety measures as per the instructions of the Engineer-in-Charge.	Kg	18,947.71			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
4	50mm Sandwich Panels (Roof & Walls)	50mm PU Sandwich Panels with 0.5mm PPGL AZ-150 Outer Sheet & 0.5mm PPGL AZ-150 Inner Sheet	Sft	37,523.67			
5	GI Decking Sheet	0.7mm GI Decking Sheet (Profiled) for Mezzanine Floor	Kg	15,722.44			
6	PPGL-Trims, Eave Gutters, PPGL Steel DownSpouts etc.	Supply, fabrication, transportation, and installation of PPGL trims and accessories including gable trim, eave trim, corner trim, valley gutter, down take pipes, sockets, bends, nozzles, and holding clamps, fabricated from pre-painted galvalume sheets to required profiles, sizes, and lengths as per approved drawings and specifications; the scope includes all labor costs, cutting, bending, shaping, handling, loading, unloading, and site shifting; installation comprising proper positioning, alignment, sealing, and secure fixing with fasteners, sealants, and necessary accessories to ensure watertightness and structural stability; complete in all respects including all materials, tools, equipment, scaffolding, and safety measures as per the instructions of the Engineer-in-Charge.	Kg	2,961.01			
7	Anchor Bolts	Supply, fabrication (if required), hot-dip galvanizing, transportation, and installation of foundation anchor bolts of sizes 24 mm dia with overall length of 725 mm and 20 mm dia with overall length of 525 mm, conforming to ASTM A307, including nuts, washers, templates, and all necessary accessories, complete as per approved drawings and project specifications; the scope includes all labor costs, setting out, positioning, alignment, fixing in concrete using proper templates to maintain line and level, and ensuring correct projection above finished level; complete in all respects including handling, loading, unloading, tools, equipment, and safety measures as per the instructions of the Engineer-in-Charge.	Kg	1,905.75			
8	Connection Bolts	Supply, transportation, and installation of high-strength hot-dip galvanized foundation connection bolts of Grade 8.8 in sizes 12 mm, 20 mm, 24 mm, and 30 mm diameter, including nuts, washers, and all necessary accessories, complete in accordance with approved drawings and project specifications; the scope includes all labor costs, handling, loading, unloading, positioning, alignment, and tightening to required torque using appropriate tools to ensure proper connection and structural integrity; complete in all respects including materials, labor, tools, equipment, and safety measures as per the instructions of the Engineer-in-Charge.	Kg	2,256.55			
9	EPDM Screws	Stainless Screws (GRI Coated Screws) for Roof & wall Cladding	Nos.	30,907.95			
SUB-TOTAL SECTION A-2 – Pre-Engineered Building (PEB) Works (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION A-3: CLASS ROOM / SEMINAR ROOM STEPS – STEEL STRUCTURE							
12	Mild Steel Structure (Seminar Room Steps)	Providing, fabricating and fixing in position steel structure deck M.S base plates, MS Box pipes, M.S top plates, M.S Angle Section for steps & cleat etc. fixing of all M.S sections with Welding and Nut/Bolts including fixing steel member with embedded plate in concrete as per drawing. Including cost of red oxide painting for primer and over 2 coats of enamel paint approved color of ICI, Burger, Master or equivalent approved, over steel structure stair & platform, specifications as shown on drawing, complete in all respect and to the direction of the Engineer.					
a)		M.S Box Section 2" x 2" x 5/32" thick	Kg.	2,448.78			
b)		M.S L Section 2" x 2" x 5/32" thick	Kg.	577.04			
c)		M.S Box Section 9" x 6" x 1/4" thick	Kg.	4,075.02			
d)		M.S Base Plate 1/2" thick	Kg.	432.52			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
e)		M.S Base Plate 1/4" thick	Kg.	58.10			
f)		Hilti Bolt 5/8" thick 4" Long	No's	460.72			
SUB-TOTAL SECTION A-3 – Class Room / Seminar Room Steps – Steel Structure (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION A-4: BUILDING ARCHITECTURE WORKS (GROUND & MEZZANINE FLOOR)							
	BRICK MASONRY (SUPER STRUCTURE)	Supply, lay and cure 6" & 8" thick Solid core concrete Block Masonry (Local made 800 PSI) in 1:4 cement sand mortar 12 mm thick including placing 1/4" dia Mild steel round bars as wall ties where Block Masonry work meets RCC work or with old brick masonry /concrete blocks, to shapes and heights as shown on drawings including making arrangements for pipes and other works, raking out joints, lifting, hoisting, washing, brushing etc. frequently to remove any efflorescence or salts, curing etc as per drawing and specification complete in all respect or as directed by the consultant.					
a)-		8" thick	Sft	16,220.75			
b)-		6" thick	Sft	Rate Only			
2	PLASTER WORKS	Supply, mix, apply and cure 20 mm thick average plaster (internal or external surfaces) in 1:4 cement sand mortar, surface to be plastered shall be cleaned and free from dust & oil, loose or projectected mortor,and all traces of salts will be thoroughly sprayed with water, all joints shall be racked out,efflorescence brushed off and all dust or foreign matter removed. This includes G.I. Chicken mesh of 20 gauge as approved shall be used over any junctions joints of concrete and masonry or two dissimilar materials about 150 mm wide fixed with G.I. wire nails etc. making sharp corners, edges, grooves, all scaffolding. As per drawings or directed by the consultant.					
a)-		On Walls	Sft	32,441.50			
3	STRUCTRUAL CONCRETE 3000 PSI	Providing and laying of Reinforced Cement Concrete with minimum Cube Strength of 3000 psi at 28 days with vibrating, leveling, compacting and curing ,according to drawing including supply, fixing and removal of fair face steel form work & scaffolding complete in all respect or directed by consultant.					
a)-		RCC Doors Lintels on bathroom walls	Cft	103.01			
b)-		RCC Vanity slab in bathrooms	Cft	72.38			
4	STEEL (Bath works)	Providing, fabricating and laying deformed steel reinforcement bars AFCO, Aziz Steel, mughal, or approved equivalent confirming to ASTM-A-615, with guaranteed minimum yield stress of 414 N/mm2 (60,000 psi) as specified and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work. No extra / separate / additional payment shall be made for chairs, unspecified laps and 18 swg binding wire. Testing of random samples of steel reinforcement will be carried out as per specifications at Contractor's cost. The Contractor shall be required to submit the bar bending schedule prior to start of any steel reinforcement work for formal written approval by the Engineer.	Kgs	1,000			
SUB-TOTAL SECTION A-4 – Building Architecture Works (Ground & Mezzanine Floor) (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION A-5: FINISHINGS & INTERIOR WORKS – GROUND FLOOR							
1	PORCELAIN TILES FLOORING	Providing and fixing porcelain tile as per drawing on floor, laid in approved patterns, fixed with adhesive/bond and filling the joints with tile bond Brand: Stile or equivalent as per drawing, at any floor, including supply & fixing of imported plastic spacer between all junction of tiles, curing, cleaning, rubbing, leveling as per slope & protection sheet etc. Complete in all respect according to drawings and design or as directed by the Architect/Consultant Engineer. Note:- For grout filling in bathrooms, the contractor should use a flexible, elastomeric, polymer-modified cementitious grout. Approved brands: Sika, Ressichem, or an approved equivalent.					
a)-		2'x4' tiles & Base Price of tile 4,000/-sqm tiles including cut the tile as per floor pattern. Brand: Century Ceramics & Ghani Tiles.	Sft	17,422.50			
b)-		2'x4" tiles Skirting & Base Price of tile 4000/-sqm tiles including cut the tile as per floor pattern. Brand: Century Ceramics & Ghani Tiles	Rft	1,725			
c)-		1'x3' tiles of Bathrooms floor & Base Price of tile 2,500/-sqm tiles including cut the tile as per floor pattern. Brand: Ocean & Time Ceramics	Sft	1,092.50			
d)-		1'x3' tiles of Bathrooms wall & Base Price of tile 2,500/-sqm tiles including cut the tile as per wall pattern. Brand: Ocean & Time Ceramics	Sft	4,370			
2	Modular commercial carpet tiles (CLASSROOMS/SEMINAR ROOM)	Providing and laying imported 600 × 600 mm Inter Colour Splash heavy-duty modular commercial carpet tiles, with factory-applied backing, by approved brands Milliken, FLOR or Interface Inc., Base Price Rs. 750/Sft, in Architect-approved colour and pattern, with certified fire performance complying with BS EN 13501-1, minimum Bfl-s1 or equivalent, and minimum 10-year commercial manufacturer's warranty. Complete with approved adhesive/fixing system, cutting, laying, alignment, jointing, edge finishing, wastage and all necessary accessories, labour and installation, laid strictly in accordance with manufacturer's recommendations and complete in all respects as per drawings, design and directions of the Architect/Consultant Engineer.	Sft	7,383			
3	IMPORTED STONE PLASTIC COMPOSITE (SPC) FLOORING /SKIRTING	Providing and laying of imported 4MM thick SPC Floor (basic price range is 450/SFT) in approved color laid as per manufacturer specifications and Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	2,000			
4	ANTI-STATIC VINYLE FLOOR (ELECTRICAL ROOM)	Providing and laying of approved quality vinyle floor 2MM thick PVC (seamless). Complete in all respect as per drawings or as directed by the Architect. (Base Price 750/Sft).	Sft	508.59			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
5	GRANITE/MARBLE/STONE WORKS	Providing and fixing approved Granite/Marble/Stone of approved quality, size, shade and finish, laid in approved patterns and fixed with approved adhesive/bond incorporating Latex-Plus (by Stile or equivalent), with joints filled using Stile grout or equivalent in matching colour/pigment, including cutting, fitting, alignment, joint finishing and necessary accessories, at any height or on any floor, complete as per drawings, design and directions of the Architect/Consultant Engineer, including pre-installation application of an approved penetrating/impregnating and breathable stone sealer to all six surfaces (face, back and four edges), suitable for granite, marble and natural stone, to prevent moisture migration, efflorescence and staining from the substrate/adhesive bed, without forming a surface film or altering the natural colour, gloss or slip resistance, applied to clean and dry surfaces strictly in accordance with the manufacturer's recommendations, including required drying/curing and protection prior to installation. Approved products: Fila PW10, Miracle Sealants 511 Impregnator, or approved equivalent readily available in Pakistan and meeting the specified performance requirements. Complete in all respects. Note:- All planter coping to be fixed with stainless steel screw.					
a)-		On Vanities (Base Price 850/-sft)	Sft	115			
b)-		On Internal Stair Steps/Landing (Base Price 350/-sft)	Sft	540.50			
c)-		Floor Transition / Door sill (Base Price 850/-sft) (8" wide)	Sft	806.73			
d)-		On Threshold of bathroom Doors jambs (U Shape) Jacket (Base Price 850/-sft) (8" wide)	Sft	225.37			
e)-		Granite Entrance Steps/Deck (Size 2'x4') – Base Rate : 850/- Sft	Sft	4,295.25			
f)-		Sunken Steps / Deck Finish – Flamed Granite (Size 1'x2') – Base Rate : 1000/- Sft	Sft	6,468			
g)-		Karachi Grey Marble to Planter Walls & Coping (6"x18") – Base Rate : 450/- Sft	Sft	1,638			
6	DRYWALL (GYPSUM BOARD PARTITIONS)	Providing, fabricating and fixing of 4" thick partitions comprising with frame 3"x1-1/2" G.I 'U' Channel, 1/2" thick Gypsum Board Sheets both side (Arish Brand), including fixing between frame of glass wool Brand: Knauf / Afico / Kimmco, including scaffolding, all fixing accessories and arrangements, fixing of frame with structural slab / beam up to any height, wastage, etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	3,249.90			
7	LIFT STONE FINISH (Size 1'x2')	Providing and laying approved 1/2" thick stone finish on Lift wall cladding/door jambes with fine joints having matching mortar duly cleaned and washed, Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer. (BASE PRICE Rs. 800/Sft)	Sft	695.75			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
8	GYPSONUM FALSE CEILING WITH BLIND COVE	Providing and fixing 4'-0" × 8'-0" × 12 mm thick Arish Brand or approved equivalent gypsum boards on a concealed CKM or approved equivalent galvanized steel suspension system comprising primary and secondary GI channels, perimeter angles, MS hangers and threaded rods, securely suspended from PEB structural members through approved structural clamps/bolted connections, with adjustable suspension connections, adequate hanger spacing and lateral bracing suitable for the required suspension depth and complete ceiling load. Including 3" high side collars and grooves, up/down panels, light pelmets, reinforced openings for light fittings and rope lights, and 18" × 18" / 24" × 24" lockable access hatches. Heavy light fixtures, HVAC equipment, ducts and other services shall be independently supported from the PEB structure. Joints shall be tape-reinforced and finished with approved jointing compound, including screw-head treatment, sanding and preparation for final finish, complete with all framing, hangers, threaded rods, structural connections, bracing, reinforcement, fixings, cutting, accessories and labour, as per approved shop drawings, manufacturer's specifications, drawings and directions of the Architect/Consultant Engineer.					
a)-		Plain false ceiling	Sft	20,700			
b)-		Perforated false ceiling (Classrooms) Providing and fixing of 9mm thick ARISH PROTILE perforated vinyl laminate acoustic ceiling tile, 600 × 600 mm, R-01 round-hole pattern, FROST finish, installed on exposed T-grid suspension system.	Sft	4,140			
9	MOISTURE RESISTANT (MR) GYPSONUM FALSE CEILING IN BATHROOMS		Sft	1,200			
10	FABRIC-WRAPPED ACOUSTIC WALL PANELS – SEMINAR ROOM/CLASSROOMS	Providing and fixing 2'-0" × 4'-0" acoustic padded wall panels comprising ¾" thick HDF backing, 6 mm (¼") Jumbolon insulation cushioning sheet below approved jute fabric finish, mounted on 1½" × 1½" local timber frame @ 2'-0" × 2'-0" c/c, with concealed magnetic catchers at all four edges for removable fixing, including complete edge finishing, fixing accessories, labour and installation	sft	2,875			
11	ALUMINUM POWDER COATED GLASS PARTITIONS	Providing, fabricating and fixing powder-coated aluminium framed glass partitions comprising 1.6 mm thick aluminium sections of Prime / Chawla or approved equivalent, finished in approved powder-coat colour, with 8 mm thick clear tempered glass having polished edges, securely glazed and sealed with approved transparent silicone sealant at glass-to-glass, glass-to-aluminium and glass-to-wall junctions, including all necessary aluminium profiles, glazing beads, EPDM/neoprene gaskets, screws, Rawl plugs, anchors, brackets and fixing accessories. Where doors are included, provide complete hardware including locks, handles and door closers. Brand Kinglong or approved equivalent, including all required hardware and fittings, complete in all respects as per approved drawings, details, manufacturer's recommendations and directions of the Architect/Consultant Engineer.	Sft	2,271.25			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
12	EXTERNAL CURTAIN WALL GLAZING	Providing, fabricating and installing external 1-way structural stick-type aluminium curtain wall comprising 50 × 118 × 2.5 mm thick mullion and transom profiles in natural anodized finish, aluminium by Prime Aluminium / Chawla or approved equivalent, securely anchored to PEB structural members with approved brackets, clamps, anchors and bolted connections, including 104 Nos. top-hung aluminium windows/doors, patch fittings and sensor-operated doors with hardware by Brand KinLong or approved equivalent. Providing 24 mm solar-control Low-E double-glazed units comprising 6 mm solar-control Low-E tempered glass by Brand AGC, Energy 72/38T or Guardian SunGuard equivalent, 12 mm argon-filled cavity with Brand AluPro Italy aluminium spacer and 6 mm clear local tempered safety glass by Brand Tariq / Ghani or approved equivalent. Include EPDM gaskets, setting blocks, glazing beads, drainage provisions, weather-grade silicone sealant, structural movement allowance and all necessary framing, fixing, glazing and accessories, complete as per approved shop drawings, structural calculations, manufacturer's specifications, drawings and directions of the Architect/Consultant Engineer.	Sft	15,511.20			
13	ALUMINUM GLASS DOORS (INTERNAL)	Providing and fixing approved powder coated aluminum doors, using section of 100mm wide frame of 1.6 mm thickness Brand : Prime /Chawla, 6mm thick glass and all hardware including door lock/handle and door closer Brand: Kinglong or approved equivalent, apply frosted paper as per drawing/instruction) etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	1,122.40			
14	GALVANIZED STEEL FIRE-RATED DOORS (4'-0" × 8'-0")	Providing, fabricating, supplying and fixing single-leaf galvanized steel fire-rated door assembly, comprising galvanized steel door leaf and matching galvanized steel frame with approved powder-coated finish, fire-resistant mineral wool/rockwool core, heavy-duty fire-rated hinges, fire-rated lockset, lever handle, self-closing door closer, intumescent/smoke seals and all necessary anchors, fasteners and accessories. Door and frame shall be by Brand MEK/Guardian, KISS or Hörmann, or approved equivalent; fire-rated hardware including hinges, lockset, lever handle and door closer shall be of an approved compatible fire-rated make and form part of the tested door assembly. The complete door assembly shall be tested and certified to UL 10C / NFPA 252 for the required fire-resistance rating, as indicated on the approved drawings/fire strategy, and installed strictly in accordance with the manufacturer's tested assembly, approved shop drawings and directions of the Architect/Consultant Engineer, complete in all respects.	Nos	2.20			
15	UPVC PANEL BATH DOORS (2'-6" × 8'-0")	Providing, fabricating, supplying and fixing single-leaf UPVC bathroom panel door comprising rigid, moisture-resistant UPVC frame and interlocking UPVC planks/panels, complete with reinforced door frame and leaf, UPVC-compatible hinges, stainless-steel/rust-resistant lockset and lever handle, seals, screws, anchors and all necessary fixing accessories. UPVC profile system shall be Skylen / Master UPVC / Ittehad UPVC or approved equivalent, with hardware by ASSA ABLOY or approved equivalent, suitable for wet and humid bathroom conditions. All joints and frame-to-wall interfaces shall be neatly sealed to prevent moisture penetration, with door leaf properly aligned and fitted for smooth operation, complete in all respects as per approved drawings, manufacturer's specifications and directions of the Architect/Consultant Engineer.	Sft	319.70			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
16	ENGINEERED ASH VENEER DOORS WITH GLASS	Providing, fabricating and fixing 40 mm thick engineered timber door leaf comprising softwood internal frame with thermopore filling and 7 mm thick Ash MDF veneer pressed on both faces, with approved Ash veneer by ZRK / Al-Noor or equivalent, including 4" wide softwood door frame clad with ½" thick Yellow Pine wood and 70 mm wide Yellow Pine wood architrave, complete with approved sanding, staining and polishing/finish. Where glazed panels are shown, provide 6 mm thick clear toughened safety glass by Brand Ghani/Tariq/ Saint-Gobain or approved equivalent, accurately cut, polished and securely fitted with approved glazing beads/gaskets. Door hardware, where specified, shall comprise lockset and lever handle, door closer by ASSA ABLOY / dormakaba, tower bolt by Häfele or approved equivalent. All hardware shall be compatible with the door construction and finish. Door design, veneer grain and glass configuration shall be as per approved drawings and details, complete with all joinery, fixing, glazing and finishing works, as directed by the Architect/Consultant Engineer.	Sft	303.60			
17	TERRAZZO FINISH & WATER PROOFING FOR PLANTERS	Providing / laying 1/2" thick Terrazzo finish on planter wall & bed shown on the drawing in (1:2) using one part of (50% white and 50% grey) cement to 2 parts of special marble chips Complete in all respect as per drawing or as directed by the Engineer In charge.	Sft	2,044.80			
18	M.S STAIR RAILING 2'-9" HEIGHT	Providing & fixing M.S railing comprising of M.S pipe blaster 38mm dia & 50mm dia pipe 16 gauge fixed and Ms horizontal pipe 3/4"dia (16 gauge) including 3 coats of matt enamel paint. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	231			
19	RECEPTION COUNTER	Providing and fixing of reception counter consisting of 2" dia S.S pipe support, 2" x 3-1/2" & 2" x 4-1/2" thick partial wooden frame, 4" deep boxes, 1/2" thick approved laminated sheet, 1/2" thick m.d.f sheet fixed on partial wood, 1/2" thick coriann on 2.5" thick r.c.c slab, 3/4" thick laminated board for key board with channel, formica pasted on 1/2" thick mdf , approved granite skirting, 5mm thick approved glass kote past on m.d.f including LED tape light. Complete in all respect as per drawings or as directed by the Architect.	Rft	20			
20	FILE CABINETS FULL HEIGHT (Faculty Lounge & Classrooms)	a)- Back Boxes :- Compressing of 3/4" plain approved colour chip board lamination (make:Patex) as approved with matching pvc edge tape, including all shelves and all hardware (S.S) etc. b)- Front Shutters openable side hung :- Compressing of 3/4" MDF lamination as approved (tactile al noor-4022) with matching pvc edge tape including all hardware (S.S) etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.					
a)-		16" deep Cabinets	Rft	50			
21	PAINT WORK	Supply, apply and prepare newly plastered surface, gypsum board surfaces, Commercial win board or MDF with filling made by ICI, rubbing with wati / sand paper to make surface smooth, 3 coats of paint manufactured by ICI Dulux/Berger plastic emulsion paint of approved shade on walls, ceiling in interior of the building as shown on drawings. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.					
a)-		On Ceiling	Sft	23,000			
b)-		On walls	Sft	14,774.40			
22		SPECIALIZED TEXTURE PAINT (As per instruction of architect) Base Rate 400/-sft	Sft	2,000			
23	ALUMINUM ROLL UP MATT FOR ENTRANCE DOOR (VESTIBULE)		Nos	2			
SUB-TOTAL SECTION A-5 – Finishings & Interior Works – Ground Floor (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION A-6: FINISHINGS & INTERIOR WORKS – MEZZANINE FLOOR							
1	PORCELAIN TILES FLOORING	Providing and fixing porcelain tile as per drawing on floor, laid in approved patterns, fixed with adhesive/bond and filling the joints with tile bond Brand: Stile or equivalent as per drawing, at any floor, including supply & fixing of imported plastic spacer between all junction of tiles, curing, cleaning, rubbing, leveling as per slope & protection sheet etc. Complete in all respect according to drawings and design or as directed by the Architect/Consultant Engineer. Note:- For grout filling in bathrooms, the contractor should use a flexible, elastomeric, polymer-modified cementitious grout. Approved brands: Sika, Ressichem, or an approved equivalent.					
a)-		2'x4' tiles & Base Price of tile 4,000/-sqm tiles including cut the tile as per floor pattern. Brand: Century Ceramics & Ghani Tiles.	Sft	4,600			
b)-		2'x4" tiles Skirting & Base Price of tile 4000/-sqm tiles including cut the tile as per floor pattern. Brand: Century Ceramics & Ghani Tiles	Rft	690			
c)-		Bathroom Wet-Area waterproofing 4mm Thick Torch Applied Bitumen Membrane Brand: Roofgrip	Sft	2,794.50			
d)-		1'x3' tiles of Bathrooms floor & Base Price of tile 2,500/-sqm tiles including cut the tile as per floor pattern. Brand: Ocean & Time Ceramics	Sft	1,368.50			
e)-		1'x3' tiles of Bathrooms wall & Base Price of tile 2,500/-sqm tiles including cut the tile as per wall pattern. Brand: Ocean & Time Ceramics	Sft	7,130			
2	Modular commercial carpet tiles (CLASSROOMS/FLEXIBLE WORKSPACE)	Providing and laying imported 600 × 600 mm Inter Colour Splash heavy-duty modular commercial carpet tiles, with factory-applied backing, by approved brands Milliken, FLOR or Interface Inc., Base Price Rs. 750/Sft, in Architect-approved colour and pattern, with certified fire performance complying with BS EN 13501-1, minimum Bfl-s1 or equivalent, and minimum 10-year commercial manufacturer's warranty. Complete with approved adhesive/fixing system, cutting, laying, alignment, jointing, edge finishing, wastage and all necessary accessories, labour and installation, laid strictly in accordance with manufacturer's recommendations and complete in all respects as per drawings, design and directions of the Architect/Consultant Engineer.	Sft	5,175			
3	IMPORTED STONE PLASTIC COMPOSITE (SPC)	Providing and laying of imported 4MM thick SPC Floor (basic price range is 450/SFT) in approved color laid as per manufacturer specifications and Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.					
a)-		On Floor/Skirting	Sft	9,200			
b)-		On wall Dado 4' high	Sft	3,013			
4	ANTI-STATIC VINYLE FLOOR (DATA CENTER)	Providing and laying of approved quality vinyle floor 2MM thick PVC (seamless). Complete in all respect as per drawings or as directed by the Architect. (Base Price 750/Sft).	Sft	1,138.50			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
5	GRANITE/MARBLE/STONE WORKS	Providing and fixing approved Granite/Marble/Stone of approved quality, size, shade and finish, laid in approved patterns and fixed with approved adhesive/bond incorporating Latex-Plus (by Stile or equivalent), with joints filled using Stile grout or equivalent in matching colour/pigment, including cutting, fitting, alignment, joint finishing and necessary accessories, at any height or on any floor, complete as per drawings, design and directions of the Architect/Consultant Engineer, including pre-installation application of an approved penetrating/impregnating and breathable stone sealer to all six surfaces (face, back and four edges), suitable for granite, marble and natural stone, to prevent moisture migration, efflorescence and staining from the substrate/adhesive bed, without forming a surface film or altering the natural colour, gloss or slip resistance, applied to clean and dry surfaces strictly in accordance with the manufacturer's recommendations, including required drying/curing and protection prior to installation. Approved products: Fila PW10, Miracle Sealants 511 Impregnator, or approved equivalent readily available in Pakistan and meeting the specified performance requirements. Complete in all respects.					
a)-		On Vanities (Base Price 850/-sft)	Sft	184			
b)-		Floor Transition / Door sill (Base Price 850/-sft) (8" wide)	Sft	88.55			
c)-		On Threshold of bathroom Doors jambs (U Shape) Jacket (Base Price 850/-sft) (8" wide)	Sft	296.79			
6	DRYWALL (GYPSUM BOARD PARTITIONS)	Providing, fabricating and fixing of 4" thick partitions comprising with frame 3"x1-1/2" G.I 'U' Channel, 1/2" thick Gypsum Board Sheets both side (Arish Brand), including fixing between frame of glass wool Brand: Knauf / Afico / Kimmco, including scaffolding, all fixing accessories and arrangements, fixing of frame with structural slab / beam up to any height, wastage, etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	21,505			
7	LOGO WALL	Provide, make ,finish and fix in position 1-1/2"x1-1/2" horizontal MS pipe, 1-1/2"x 3" vertical MS pipe frame,1/2" thick cement board sheet, according to drawings, this includes all nails, screws, etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	600			
8	LIFT STONE FINISH (Size 1'x2')	Providing and laying approved 1/2" thick stone finish on Lift wall cladding/door jambas with fine joints having matching mortar duly cleaned and washed, Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer. (BASE PRICE Rs. 800/Sft)	Sft	695.75			
9	GYPSUM FALSE CEILING WITH BLIND COVE	Providing and fixing 4'-0" × 8'-0" × 12 mm thick Arish Brand or approved equivalent gypsum boards on a concealed CKM or approved equivalent galvanized steel suspension system comprising primary and secondary GI channels, perimeter angles, MS hangers and threaded rods, securely suspended from PEB structural members through approved structural clamps/bolted connections, with adjustable suspension connections, adequate hanger spacing and lateral bracing suitable for the required suspension depth and complete ceiling load. Including 3" high side collars and grooves, up/down panels, light pelmets, reinforced openings for light fittings and rope lights, and 18" × 18" / 24" × 24" lockable access hatches. Heavy light fixtures, HVAC equipment, ducts and other services shall be independently supported from the PEB structure. Joints shall be tape-reinforced and finished with approved jointing compound, including screw-head treatment, sanding and preparation for final finish, complete with all framing, hangers, threaded rods, structural connections, bracing, reinforcement, fixings, cutting, accessories and labour, as per approved shop drawings, manufacturer's specifications, drawings and directions of the Architect/Consultant Engineer.					
a)-		Plain false ceiling	Sft	5,520			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
b)-		Perforated false ceiling (Classrooms/meeting/Huddle) Providing and fixing of 9mm thick ARISH PROTILE perforated vinyl laminate acoustic ceiling tile, 600 × 600 mm, R-01 round-hole pattern, FROST finish, installed on exposed T-grid suspension system.	Sft	11,511.50			
10	MOISTURE RESISTANT (MR) GYPSUM FALSE CEILING IN BATHROOMS		Sft	1,428			
11	FABRIC-WRAPPED ACOUSTIC WALL PANELS – CLASSROOMS	Providing and fixing 2'-0" × 4'-0" acoustic padded wall panels comprising ¾" thick HDF backing, 6 mm (¼") Jumbolon insulation cushioning sheet below approved jute fabric finish, mounted on 1½" × 1½" local timber frame @ 2'-0" × 2'-0" c/c, with concealed magnetic catchers at all four edges for removable fixing, including complete edge finishing, fixing accessories, labour and installation	sft	1,380			
12	ALUMINUM POWDER COATED GLASS PARTITIONS	Providing, fabricating and fixing powder-coated aluminium framed glass partitions comprising 1.6 mm thick aluminium sections of Prime / Chawla or approved equivalent, finished in approved powder-coat colour, with 8 mm thick clear tempered glass having polished edges, securely glazed and sealed with approved transparent silicone sealant at glass-to-glass, glass-to-aluminium and glass-to-wall junctions, including all necessary aluminium profiles, glazing beads, EPDM/neoprene gaskets, screws, Rawl plugs, anchors, brackets and fixing accessories. Where doors are included, provide complete hardware including locks, handles and door closers. Brand Kinglong or approved equivalent, including all required hardware and fittings, complete in all respects as per approved drawings, details, manufacturer's recommendations and directions of the Architect/Consultant Engineer.	Sft	5,656.85			
13	ALUMINUM GLASS DOORS (INTERNAL)	Providing and fixing approved powder coated aluminum doors, using section of 100mm wide frame of 1.6 mm thickness Brand : Prime /Chawla, 6mm thick glass and all hardware including door lock/handle and door closer Brand: Kinglong or approved equivalent, apply frosted paper as per drawing/instruction) etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	993.60			
14	GALVANIZED STEEL FIRE-RATED DOORS (4'-0" × 8'-0")	Providing, fabricating, supplying and fixing single-leaf galvanized steel fire-rated door assembly, comprising galvanized steel door leaf and matching galvanized steel frame with approved powder-coated finish, fire-resistant mineral wool/rockwool core, heavy-duty fire-rated hinges, fire-rated lockset, lever handle, self-closing door closer, intumescent/smoke seals and all necessary anchors, fasteners and accessories. Door and frame shall be by Brand MEK/Guardian, KISS or Hörmann, or approved equivalent; fire-rated hardware including hinges, lockset, lever handle and door closer shall be of an approved compatible fire-rated make and form part of the tested door assembly. The complete door assembly shall be tested and certified to UL 10C / NFPA 252 for the required fire-resistance rating, as indicated on the approved drawings/fire strategy, and installed strictly in accordance with the manufacturer's tested assembly, approved shop drawings and directions of the Architect/Consultant Engineer, complete in all respects.	Nos	4.40			
15	UPVC PANEL BATH DOORS (2'-6" × 8'-0")	Providing, fabricating, supplying and fixing single-leaf UPVC bathroom panel door comprising rigid, moisture-resistant UPVC frame and interlocking UPVC planks/panels, complete with reinforced door frame and leaf, UPVC-compatible hinges, stainless-steel/rust-resistant lockset and lever handle, seals, screws, anchors and all necessary fixing accessories. UPVC profile system shall be Skylen / Master UPVC / Ittehad UPVC or approved equivalent, with hardware by ASSA ABLOY or approved equivalent, suitable for wet and humid bathroom conditions. All joints and frame-to-wall interfaces shall be neatly sealed to prevent moisture penetration, with door leaf properly aligned and fitted for smooth operation, complete in all respects as per approved drawings, manufacturer's specifications and directions of the Architect/Consultant Engineer.	Sft	457.70			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
16	ENGINEERED ASH VENEER DOORS WITH GLASS	Providing, fabricating and fixing 40 mm thick engineered timber door leaf comprising softwood internal frame with thermopore filling and 7 mm thick Ash MDF veneer pressed on both faces, with approved Ash veneer by ZRK / Al-Noor or equivalent, including 4" wide softwood door frame clad with ½" thick Yellow Pine wood and 70 mm wide Yellow Pine wood architrave, complete with approved sanding, staining and polishing/finish. Where glazed panels are shown, provide 6 mm thick clear toughened safety glass by Brand Ghani/Tariq/ Saint-Gobain or approved equivalent, accurately cut, polished and securely fitted with approved glazing beads/gaskets. Door hardware, where specified, shall comprise lockset and lever handle, door closer by ASSA ABLOY / dormakaba, tower bolt by Häfele or approved equivalent. All hardware shall be compatible with the door construction and finish. Door design, veneer grain and glass configuration shall be as per approved drawings and details, complete with all joinery, fixing, glazing and finishing works, as directed by the Architect/Consultant Engineer.	Sft	262.20			
17	M.S STAIR RAILING 2'-9" HEIGHT	Providing & fixing M.S railing comprising of M.S pipe blaster 38mm dia & 50mm dia pipe 16 gauge fixed and Ms horizontal pipe 3/4"dia (16 gauge) including 3 coats of matt enamel paint. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	Sft	264			
18	COFFEE COUNTER	Providing, fabricating and installation of Coffee counter consisting of base frame in laminated 3/4" plain Approved colour chip board lamination (make:Patex) as approved with matching pvc edge tape, including all shelves and all hardware (S.S) etc., Front Shutters Compressing of 3/4" MDF lamination as approved (tactile al noor-4022) with matching pvc edge tape including all hardware (S.S) etc., approved granite (850/-sft) on top of counter and back splash/tile. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.	NO	2			
19	FILE CABINETS FULL HEIGHT (Faculty Lounge & Classrooms)	a)- Back Boxes :- Compressing of 3/4" plain approved colour chip board lamination (make:Patex) as approved with matching pvc edge tape, including all shelves and all hardware (S.S) etc. b)- Front Shutters openable side hung :- Compressing of 3/4" MDF lamination as approved (tactile al noor-4022) with matching pvc edge tape including all hardware (S.S) etc. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.					
a)-		16" deep Cabinets	Rft	65			
20	PAINT WORK	Supply, apply and prepare newly plastered surface, gypsum board surfaces, Commercial win board or MDF with filling made by ICI, rubbing with wati / sand paper to make surface smooth, 3 coats of paint manufactured by ICI Dulux/Berger plastic emulsion paint of approved shade on walls, ceiling in interior of the building as shown on drawings. Complete in all respect according to drawings and design or As directed by the Architect/consultant Engineer.					
a)-		On Ceiling	Sft	18,400			
b)-		On walls	Sft	50,330.90			
21		SPECIALIZED TEXTURE PAINT (As per instruction of architect) Base Rate 400/-sft	Sft	1,500			
SUB-TOTAL SECTION A-6 – Finishings & Interior Works – Mezzanine Floor (carried to Grand Summary)							

PART B – ELECTRICAL WORKS

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-1: LOW TENSION (LT) SWITCHGEAR							
1.01	Main Panel Board (MPB)	Fabrication, supply at site, installation, testing and commissioning of Main Panel Board (MPB) comprising of cubicles, frame made of sheet steel 14 SWG, with flexible earthing straps, degreased and de-rusted, finished with electro-static powder coating of 80 micron thickness in approved color. Panel housing to comply with protection class IP-44, indoor floor mounting, in free standing design, with hinged door, lockable handle, all auxiliaries, internal wiring, designation labels on ACBs/MCCBs, earthing bar, numbering beads on the control wires, panel suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral. Imported Bus bars of 99.9% purity electrolytic copper with tin plating, including cost of cable termination lugs, brass cable glands for incoming & outgoing cables, wiring from breakers, indication lamps, instruments and control all accessories, SPD, UV/OV, Phase sequence/failure relay complete in all respects. All incoming and outgoing breakers shall be accessible by opening the front door having additional M.S. sheet cover. Gaskets shall also be provided where necessary. All ACBs/MCCBs shall be suitable to operate without any de-rating at 40°C ambient temperature and shall be of one make only and not a mixture of more than one make.					
		The front and back sides of MLTP shall also have louvers at bottom and sides of panel for hot air exhaust. The panel shall have a front access. Circuits layout shall conform to the single line diagrams. Before manufacturing of Panel, manufacturer must visit the site and measure the available spaces and manufacture the Panel accordingly and submit the shop drawing for Approval. Panel shall be manufactured by any one of the approved manufacturer from Approved Material List.	Nos.	1			
1.02	Auto Load Sharing Synchronizing Generator – Panel Board	Supply at site, fabrication, installation, testing and commissioning of Auto Load Sharing Synchronizing Generator Panel Board made of sheet steel 14 SWG, degreased and derusted, with 2 coats of antirust paint, 2 coats of powder coated paint of approved color, protection classification IP-55 outdoor type, totally enclosed floor mounting cubicle type in free standing design, with hinged door, handle including cost of all auxiliaries, internal wiring, designation labels on breakers, earthing bar suitable for system Voltage 415 V, 50 Hz, 3 Phase and neutral bus bars of 99.9% electrolytic copper of appropriate size according to load demand, including cost of cable terminal blocks, wiring from MCCBs/ACBs, all accessories complete in all respects. All ACBs shall be accessible directly from the front of panel.					
		All MCCBs/ACBs shall be suitable to operate without any derating at 50°C ambient temperature. The sides of Synchronizing Panel shall also have louvers at bottom and top on sides of panel for hot air exhaust, wire mesh etc. The back of the panel shall be lockable door instead of bolted and shall conform to single line diagram. Synchronizing Panel shall be manufactured by any one of the approved manufacturer.					
		Before manufacturing of Panel, manufacturer must visit the site and measure the available spaces and manufacture the Panel accordingly and submit the shop drawing for Approval. Panel shall be manufactured by any one of the approved manufacturer from Approved Material List.					

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
	Auto Start, Load Share & Synch Module	Supply at site, fabrication, installation, testing and commissioning of Auto start, Load Share & Synchronizing module with in synchronizing panel Board, must include following Features: 1. Advanced, Multi-set communications port allowing up to 2-3 generators for kW and kVAR load sharing, Dead Bus control, starting / stopping of the generator. 2. Independent starting and stopping of generators according to load Demand.					
		3. The module has ability to monitor under/over voltage, under/over Gen frequency, charge fail, emergency stop, Generator short circuit protection, reverse power, negative phase sequence, loss of excitation etc. 4. Powerful auto-sync and Load Sharing functions as standard. 5. RS485 Modbus/RJ45 Port output-using industry standard communication protocol for full system integration into new and existing building management and control schemes.					
		6. Pin number protected front panel programming of selected trip points and existing building management and control schemes. 7. Built in exercise timer, that can be set for weekly or monthly intervals. 8. LCD 4-line text based display to provide instrumentation and operating stats. 9. Multi LCD languages. 10. Automatic & manual Operation Modes.					
		11. Voltage measurement range of up to 22kV can be achieved utilizing the provided PT inputs. 12. Independent generator load switching buttons, providing all in one box solution. 13. Fully remote control and telemetry. 14. Synchroscope with auto synch control.					
		15. Voltage and Frequency matching. 16. Phase angle and phase rotation indication. 17. Dead bus sensing. 18. Multi set load demand operation. 19. KW & KVAR load sharing with multiple generators. 20. Direct communication from the module to the governor and AVR.	Nos.	1			
1.03	Automatic Power Factor Improvement Plant (AFIP)	Supply at site, installation, fabrication, commissioning and manufacture of 500 Volt, indoor type Automatic Power Factor Improvement Plant made of sheet steel 14 SWG degreased and derusted with 2 coats of powder coated paint of approved color, protection classification IP-44, indoor floor mounted cubicle type in free standing design with hinged door, handle including cost of all auxiliaries, internal wiring, labels etc., to be installed adjacent to Main Panel Board consisting of 415V, 50Hz capacitors of IEC 831, triple pole Air Break AC6b Contactors, HRC fuse bases and links, 12 steps Digital type Automatic reactive relay with all necessary protective devices, "ON" indication lamps, Digital Power Factor Meter, push buttons, auxiliary contactors, hand / off / auto switch, discharging chokes, control fuses, fuse puller. The sides of PFIP shall also have louvers at bottom and top on external sides of panel for hot air exhaust.					
		Thermostatically controlled 230 Volts robust exhaust fans 6"/8" dia. to be installed on inner sides or on back of PFI for hot air exhaust including cost of thermostat ON-OFF switches wire mesh and all necessary accessories / wiring, complete in all respects.					
i.		PFIP (200 KVAR)	Nos.	1			
1.04	Sub Main Panel Boards	Supply at site, fabrication, installation, testing and commissioning of following Sub main panel boards (SMPB) having same general construction specifications as item 1.01 but complete in all respects as per the Single Line Diagram.					
i.		SMPB-GF	Nos.	1			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
ii.		SMPB-MF	Nos.	1			
iii.		SMPB-PLUMBING	Nos.	1			
iv.		SMPB-HVAC (IP-55 Rated)	Nos.	1			
1.05	Distribution Boards	Supply at site, fabrication, installation, testing and commissioning of following Distribution boards, made of MS Sheet 16 SWG with hinged door, handle, catcher, earthing bar, neutral strip, internal wiring from MCBs terminating on cable terminal blocks, 2 coats of antirust and powder coated paint of approved color, Digital Voltmeter, LED indication lights, including cost of all necessary materials complete in all respects. DBs shall be manufactured as per specifications, single line diagram up to the satisfaction of Engineer.					
1		DBLP01-GF	Nos.	1			
2		DBLP02-GF	Nos.	1			
3		DBLP03-GF	Nos.	1			
4		DBLP01-MF	Nos.	1			
5		DBLP02-MF	Nos.	1			
6		DBLP03-MF	Nos.	1			
7		DBUPS-GF	Nos.	1			
8		DBUPS-MF	Nos.	1			
9		DB-LIFT	Nos.	2			
10		LCP-EXT	Nos.	1			
Notes: 1) Before manufacturing of Panel, manufacturer must visit the site and measure the available spaces and manufacture the Panel accordingly. 2) Shop/GA drawing to be submitted for Approval. 3) Panel shall be manufactured by any one of the approved manufacturer from Approved Material List.							
SUB-TOTAL SECTION B-1 – Low Tension (LT) Switchgear (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-2: WIRING & CONDUITING							
2.01	Circuit	Supply, installation and commissioning of light circuit wiring, from MCB in DB to Switch Board to be wired with 2x2.5mm sq. PVC 450/750 V grade wire in and including cost of 25mm dia. heavy duty PVC conduit installed on roof slab, above false ceiling, or concealed in walls, or as required as per site conditions, all PVC conduit accessories, pull boxes, wago connectors, steel pull wires and 2.5 mm sq. PVC insulated wire of color green as circuit protective conductor (CPC), complete in all respects. Each circuit shall have independent CPC. Maximum wiring of 2 light circuits can be pulled through 25mm dia. PVC conduit.	Nos.	45			
2.01 (a)		same as item above but wiring from switch board to switch board complete in all respects.	Nos.	30			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
2.02	Wiring from switch to Light point	Wiring from switch to first light point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 25 mm dia PVC conduit, complete with cables and conduits installed on RCC slab, above false ceiling, recessed in wall, columns slabs or above light carrier including all PVC conduit accessories, junction boxes, pull boxes, toll less splicing connectors, steel pull wires, ceiling rose, with all necessary accessories.	Nos.	250			
2.03	Wiring from point to point	Wiring and conduiting from light point to point with 2 x 1.5 sq.mm 1 core Cu/PVC insulated cable + CPC 1.5 sq.mm 1 core Cu/PVC insulated cable in 25 mm. dia PVC conduit, complete with cables, conduits and all necessary accessories such as toll less splicing connectors, ceiling rose, flexible wires/conduits, sheet steel boxes etc. (wherever required) as per the specifications and drawings and approval by the Engineer.	Nos.	475			
2.04	Wiring of 1-Light Point Controlled by 2-2 Way Switches	Same as per item No. 2.02 but 1 light point controlled by 2-2 way switches, complete in all respects.	Nos.	2			
2.05	Wiring of Switch Sockets	Wiring and fixing of following switch socket away from switch board for RAW/UPS power wired with 3x1 core 4 mm sq. P+N+CPC, PVC wires 450/750 Volt grade, in and including cost of 25mm dia. heavy duty PVC conduit or 1-1½" PVC duct, recessed in walls, floor, above false ceiling, under workstation table or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires, PVC box (under workstation) and M.S. box (for wall sockets) shall be made of 16 SWG sheet steel with earth terminal having 2 coats of antirust paint, M.S./ PVC box shall be of the same size as that of socket, INCLUDING cost of switch sockets with porcelain base and plug, complete in all respect. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.					
a)		DB to socket	Nos.	120			
b)		Same as above item but socket to socket	Nos.	360			
c)		Same as above item but wiring of hand dryer	Nos.	5			
d)		Same as above item but wiring of Geyser	Nos.	5			
e)		Same as above item but wiring of Projector	Nos.	5			
2.06		Wiring for following equipment with 3 x 1 Core 2.5mm² copper conductor PVC in 25mm dia PVC conduit surface / concealed in PVC Pipe or on cable tray and connections with 16 SWG powder coated sheet back box with brass earth terminal and specified face plate with all accessories, complete in all respect as per drawing and specifications.					
a)		Biometric Machine	Nos.	1			
b)		FACP	Nos.	1			
2.07	Gang Type Switches & Sockets	Supply and installation of following power socket & Gang Switches with 16 SWG powder coated sheet back box with brass earth terminal and specified face plate with all accessories, complete in all respect as per drawing and specifications.					
	GANG SWITCHES						
a)		1 Gang 10A Switch	Nos.	20			
b)		1 Gang 10A (2-way) Switch	Nos.	4			
c)		2 Gang 10A Switch	Nos.	25			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
d)		3 Gang 10A Switch	Nos.	15			
e)		4 Gang 10A Switch	Nos.	40			
f)		6 Gang 10A Switch	Nos.	30			
	POWER SOCKETS						
g)		13/16A, 3 Pin International Switch Socket Outlets	Nos.	450			
h)		2x13A International Socket Outlet + HDMI & Data RJ45 Outlet in Table Pop Up Box	Nos.	35			
2.08	Ceiling Fan Point	Same as per Item No. 1.02 mentioned above but wiring of ceiling fan point including cost of M.S. sheet steel switch box 16 SWG with earth terminal and 2 coats of enameled paint complete in all respects.	Nos.	15			
2.09	Wall Bracket Fan Point	Same as Item No. 3.02 mentioned above but wiring of wall bracket fan point complete in all respects.	Nos.	10			
2.10	Wiring of VRF Indoor Units	Supply and Wiring of VRF Indoor units from DB MCB to unit with 3 x 1 Core 1.5 mmsq 450/750V grade PVC cable (P+N+E) in including the cost of 25mm dia PVC/UPVC heavy duty conduit, , recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires complete in all respect. Wiring shall be done directly from the MCB installed in the respective DB.	Nos.	57			
2.11	Wiring of HVAC Fans (Single Phase)	Wiring and fixing of Single Phase HVAC Fans with 3 x 1 Core 2.5 mm sq. (P+N+CPC), PVC wires 450/750 Volt grade from DB to exhaust fan, in and including cost of 25mm dia. heavy duty PVC Electrical conduit , recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC Electrical conduit accessories, pull boxes, steel pull wires complete in all respect. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.	Nos	2			
2.12	Wiring of HVAC Fans (Three Phase)	Wiring and fixing of Three Phase HVAC Fans with 4 Core 4mmsq + 1 Core 4 mm sq. PVC wires 450/750 Volt grade from DB to exhaust fan, in and including cost of 25mm dia. heavy duty PVC Electrical conduit , recessed in walls, floor, above false ceiling or as required as per site conditions, all PVC Electrical conduit accessories, pull boxes, steel pull wires complete in all respect. Wiring shall be done directly from the MCB installed in the respective DB without any claim of circuit.	Nos	1			
2.13		Supply, Wiring and fixing of Fiber optic HDMI cable from LED TV to HDMI point in meeting/working table in 1½" PVC conduit with all allied accessories complete in all respect.	Nos.	35			
2.14	Floor Outlet Boxes (FOB) Mild Steel (250mm x 250mm x 100mm Deep)	Fabrication, supply, Wiring installation and Fluke/Testing of floor outlet boxes made of mild steel 16 SWG of appropriate size but not less than 250mm x 250mm x 100mm deep with open able hinged cover 2.5mm thick with Wiring and fixing of switch socket with 3x1 core 4 mm sq. P+N+CPC, Cu/PVC wires 450/750 Volt grade, in and including cost of 25mm dia. heavy duty PVC Electrical conduit including Wiring with 4 Pair Cat-6 + 2 Pair Telephone Cable in 3/4" Pvc Conduit, all necessary materials / arrangements for fixation of sockets, holes for passage of outgoing cables, rubber, earthing terminal, and partition made of backlite as shown on drawing. Boxes shall be installed flush with floor. Samples shall be submitted to Architect / Engineer for necessary approval before installation or purchase of floor boxes. Floor outlet boxes shall be suitable for installation of the following: Rates to be quoted shall be for floor boxes EXCLUDING cost of following accessories quantity installed in each of F.O.Bs. a) 2 No. 1 - 3 pin 13 Amps Universal socket Outlet . b) 1 No. Data Outlet (RJ-45) c) 1 Nos. Telephone Outlet (RJ-11)	Nos	20			
SUB-TOTAL SECTION B-2 – Wiring & Conduiting (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-3: POWER CABLES & TRUNKING SYSTEM							
3.01	L.V Power Cables	Supply at site, installation, testing and commissioning of PVC /XLPE insulated PVC Sheathed Armored / non armored copper conductor cable 600 / 1000 Volt grade installed in pre laid conduit / on cable trays as per routes shown on drawings including cost of all necessary materials, connections, identification tags, cables lugs properly crimped at both ends for the following sizes complete in all respects.					
a)	Power Cables & CPC						
i.		4C-300mm.sq. Cu/XLPE/PVC/SWA/PVC 600/1000V (RYBN)	Rft	1,500			
ii		4C-185mm.sq. Cu-PVC/PVC 600/1000V (RYBN) + 1C-70mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	500			
iii		4C-95mm.sq. Cu-PVC/PVC 600/1000V (RYBN) + 1C-50mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	120			
v		4C-50mm.sq. Cu-PVC/PVC 600/1000V (RYBN) + 1C-16mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	50			
vi		4C-25mm.sq. Cu-PVC/PVC 600/1000V (RYBN) + 1C-16mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	450			
viii		4C-16mm.sq. Cu-PVC/PVC 600/1000V (RYBN) + 1C-16mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	1,300			
ix		4C-10mm.sq. Cu-PVC/PVC 600/1000V (RYBN) + 1C-10mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	450			
ix		2C-6mm.sq. Cu-PVC/PVC 600/1000V (PN) + 1C-6mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	750			
x		2C-10mm.sq. Cu-PVC/PVC 600/1000V (PN) + 1C-10mm.sq. Cu-PVC 450/750V (Green CPC)	Rft	400			
3.02	P.V.C. Conduit and Accessories	Supply at site of PVC conduit heavy duty to be installed on RCC slabs, walls, floor, columns above false ceiling or as required as per site conditions including cost of all PVC conduit accessories, steel pull wires, complete in all respects. Payments shall be made as per the actual installed length.					
i.		1-1/2" Dia PVC/UPVC Electrical Conduit	Rft.	100			
ii.		2" Dia PVC/UPVC Electrical Conduit	Rft.	300			
iii.		4" Dia PVC/UPVC Electrical Conduit	Rft.	50			
iv.		6" Dia PVC/UPVC Electrical Conduit	Rft.	300			
v.		8" Dia PVC/UPVC Electrical Conduit	Rft.	100			
3.03	MS Powder Coated Ceiling Suspended / Horizontal Cable Tray	Fabrication, supply at site and installation of MS Powder coated Perforated cable tray, 8 ft. to 10 ft. long with sides 3" high with cover to be installed on wall, or in vertical, or above false ceiling in horizontal position or as shown on drawing, including cost of following:					
	-2 M.S threaded hanging rod 1/2" dia. Length 12" or as required as per site. – -M.S strip 2" wide x 1/4" thick.	-Hilti rawal bolts as per required quantity & size.					

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
	-Complete hanging system shall be installed at every 36".	The cable tray shall be complete in all respects including cost of all accessories / materials. Cable tray shall be of the following sizes.					
i.		4"x3" 16 SWG Cable Tray	Rft	300			
ii.		6"x3" 16 SWG Cable Tray	Rft	1,100			
iii.		12"x3" 16 SWG Cable Tray	Rft	150			
<i>Important Note:</i> <i>Actual length of the power cables, cable tray & conduit shall be measured at site duly by the contractor under the presence of Engineer Incharge, complete in all respects. Above mentioned lengths are the estimated lengths which are required at site.</i> <i>The contractor shall submit the shop drawings, samples of the brand selected for procurement of cable trays, complete compliance report with BOQ specs prior to the procurement.</i>							
SUB-TOTAL SECTION B-3 – Power Cables & Trunking System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-4: FITTINGS & FIXTURES							
4.01	Fluorescent Fittings	Supply at site, installation, testing, and commissioning of LED light fitting and fixtures, complete with all allied accessories, mounting/hanging arrangements, LED drivers, dedicated earth terminals, selected and approved as per the choice of the architect/engineer in charge, complete in all respects.					
<i>NOTE: All light fittings shall be flicker-free lumination, operational Power Factor (P.F) not less than 0.9, Internal SPD (1KV Min), SDCM not more than 3, CRI not less than 80, lumen efficacy not less than 80 lumen/watt, operational hours not less than 30,000 hours, CE Certified, and capable of operating between 170~265 VAC.</i> <i>All lighting fixtures exposed to weather and rain shall have be water tight and corrosion resistant.</i>							
		At the time of procurement, prior to the delivery of lighting fixtures at site, the vendor/supplier will provide complete technical documents, prototype test report of each lighting fixture, certification documents, complete in all respects. This job also includes the cost of civil works for the lighting fixtures that require civil foundation.					
1		Cylinder light 10 Watts	Nos.	60			
2		COB light 12 Watts	Nos.	80			
3		Hanging Linear light with opal pc diffuser (rugged plastic with texture) 150 to 160 lm/watt	Rft	800			
4		Barrisol ceiling light 50 watt per sft, PCB LED strip with imported stretch ceiling fabric, aluminum profile channel with rubber gas kit	Sft	250			
5		1 meter track channel 220v black color 3 wire track.	Nos.	30			
6		Track light spot 20 Watts	Nos.	60			
7		Pendent Light 20 Watts	Nos.	30			
8		Hanging Lamp 20 Watts	Nos.	20			
9		High Bay Light 100 Watts	Nos.	40			
10		Bulk Head Light 10 Watts	Nos.	40			
11		Flood Light 100 Watt	Nos.	12			
12		Planter Light 3 Watts	Nos.	30			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
13		Step Light 3 Watts	Nos.	20			
14		Combined Emergency & Exit Light With Legend Kit And 3 Hrs Battery Backup installed either slab or above door or as shown on drawing complete with legend kit and all accessories.	Nos.	10			
15		Non Maintained Wall Mounted Emergency Light With 3 Hrs. Backup installed either slab or above door or as shown on drawing complete with legend kit and all accessories.	Nos.	20			
16		Exit Light 3 Hrs. Battery Backup ceiling mounted as shown on drawing complete with legend kit and all accessories.	Nos.	4			
17		Directional Maintained Battery Operated LED Exit light with 3 hours battery backup.	Nos.	16			
18		Supply, installation and connection of 10"x10" Ceiling Exhaust fan plastic body with flexible pipe and louver complete with all fixing accessories.	Nos.	1			
19		Supply, installation and connection of 2x2 feet Ceiling Fan plastic body complete with all fixing accessories.	Nos.	15			
20		Supply, Installation and commissioning of Wall Bracket fan with louvers and remote control complete in all respects.	Nos.	10			
SUB-TOTAL SECTION B-4 – Fittings & Fixtures (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-5: FIRE ALARM & DETECTION SYSTEM							
	<i>Note:- Supply & Installation of fire Alarm and detection system conforming to EN-54 & NFPA-72 comprising of following components / equipment</i>						
5.01	Fire Alarm Panel & Devices						
a)		Supply at site, installation, testing and commissioning of 2 loops Intelligent Addressable Fire Alarm Control Panel (FACP), complete with built-in power supply unit, NICAD battery backup (2 Hrs), Addressable power supply, supervisory buzzer, alarm cancelling device, loop control module, loop expander module, mounting chassis, complete in all respects, as per the specifications and drawings.	Nos.	1			
b)		Supply, installation, testing & commissioning of addressable manual call stations press glass type with test key, suitable for surface or flush mounting complete in all respects and conforming to general specifications.	Nos.	8			
c)		Supply, installation, testing & commissioning of electronic alarm sounders, complete in all respects and conforming to general specifications.	Nos.	8			
d)		Supply, installation, testing & commissioning of addressable optical smoke detectors with base and built in isolator, complete in all respects and conforming to general specifications.	Nos.	110			
f)		Supply, installation, testing & commissioning of addressable heat detector rate of temperature rise type with base and built in isolator, complete in all respects .	Nos.	1			
g)		Supply, installation, testing & commissioning of addressable Combined Smoke & heat detector with base and built in isolator, complete in all respects .	Nos.	2			
5.02	Fire Alarm System Wiring & Conduiting	Supply and wiring of Smoke / Heat / Sounder and manual call point, 120 min Fire Rated Fire Alarm Cable 1 x 2 core 1.5mmsq Cu/Mica/LSZH cable in and including cost of 1" dia EMT conduit with all installing accessories, complete in all respect as per drawings and specification.	Points	129			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
5.02 (a)		Same as item above but supply and wiring for the FACP loop from 1st device to FACP & last device to FACP complete in all respects.	Points	4			
5.03		Testing & Commissioning of the entire Fire Alarm system with testing and commissioning report, complete in all respects.	Job	1			
<i>It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.</i>							
SUB-TOTAL SECTION B-5 – Fire Alarm & Detection System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-6: TV, DATA & VOICE SYSTEM							
6.01	Wireless Wi-Fi Access Point	Supply at site, installation, testing and commissioning of ceiling mounted Wireless Access Point with minimum Simultaneous 574 Mbps on 2.4 GHz and 2402 Mbps on 5 GHz totals 2976 Mbps Wi-Fi speeds, POE Powered including all necessary materials and accessories complete in all respects.	Nos.	20			
6.02	Data & Telephone Wiring & Conduiting						
a)		Supply at site, installation, testing and commissioning of 4 Pair CAT 6 UTP cable with in 1" dia heavy duty PVC Conduit or flexible pipe/cable tray from DATA, TV, Voice & Wifi point to patch panel /Network Switch complete in all respects.	Points	129			
b)		Supply at site, installation, testing and commissioning of RJ-45 with IOs on a single faceplate and 16 SWG sheet steel / PVC (on work stations) back box recessed in wall or wall surface, floor box, complete in all respects.	Points	30			
c)		Supply at site, installation, testing and commissioning of Duplex Data Outlet for Voice & Data (2 x RJ-45) with IOs on a single faceplate and 16 SWG sheet steel / PVC (on work stations) back box recessed in wall or wall surface, floor box, complete in all respects.	Points	60			
d)		Supply and installation of 25 Pair pure Copper telephone PVC insulated cable, laid in pre laid PVC conduit / cable tray / duct patti / as required, complete in all respects.(Assumed Length)	Rft	300			
e)		Supply, installation, testing and commissioning of 6 Core Multi Mode Fiber Optic Cable in 1-1/2" dia HDPE pipe / cable tray including fusion splicing with pigtails, connectors, couplers at both ends. The cable shall run from Main connection point to Core switch and core switch to remote switches complete in all respects, as per the specifications and drawings and to the entire satisfaction of the Engineer.	Rft	1,200			
f)		Supply, Installation & commissioning of IP Based Branch Exchange (IP PABX) comprising of:-	Job	1			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
		8 External (Direct) lines from Telephone Pole 60 Internal (Extension) lines with possibility to add more lines if required. 1. Extension to extension dialing 2. Diversion 3. Trunk Access 4. Call transfer 5. Extension Call pickup 6. Operator Camp-on 7. Music on hold 8. Redialing system 9. Special trunks 10. Display panel 11. Power Supply with 2hrs battery back up 12. Extendable type 13. Call log and print	Job	1			
6.03	Gigabit Switches						
a)		Supply at site, installation, tagging, connections, testing and commissioning of following switches, including cost of power bus bar, IDC connectors, all necessary accessories complete in all respects.					
i.		24 Port Giga Bit POE + 4 SFP ports switch with 24 Port Patch Panel & Cable Manager.	Nos.	6			
6.04	Data Cabinet	Supply at site and installation of following sizes Data racks for the fixing of network switches, Patch Panels with cable organizer, splice trays, perforated doors with locks, mounting rails, leveling feet, 2 removable side door, PDU, exhaust fans etc. including all installation accessories as per specification complete in all respect to the approval of engineer.					
i.		42 U data Cabinet	Nos.	1			
ii.		15 U data Cabinet	Nos.	4			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.</i>						
	SUB-TOTAL SECTION B-6 – TV, Data & Voice System (carried to Grand Summary)						

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-7: EARTHING SYSTEM							
7.01	Earthing System - Bore Type	Drilling of earth bore 3" (75mm) dia up to 10' below permanent water table, back filling, ramming, complete in all respect. Earthing bores shall be made at 6'-0" away from foundation and distance between earth bore shall not be less than 10'-0" to achieve desire earth resistance mentioned in specification.					
i.		Bores for earthing of MLTP Panel	Nos	1			
ii.		Bores for earthing of Sync Panel	Nos	1			
iii.		Bores for earthing of IT Equipment	Nos	1			
iv.		Bores for earthing of UPS Equipment	Nos	1			
v.		Bores for earthing body of Gen Body, Diesel Tank	Nos	1			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
vi.		Bores for earthing neutral of Diesel Generator	Nos	2			
vii.		Bores for earthing of Solar PV System	Nos	2			
7.02	G.I. Pipe	Supply and installation of G.I pipe 50mm (2") dia. 14 SWG and tinned spike to be installed in premade bore, all G.I pipe accessories like tees, bends, sockets etc.: G.I pipe shall have 1/2" predrilled hole at every 6" distance. G.I pipe shall be connected to tinned copper spike as per detail shown on drawing, complete in all respects. NOTE: Length of pipe shall depend upon the depth of the bore. Payment shall be made as per actual length installed.	Rft	180			
7.03	Tinned Copper Rod	Supply, installation of tinned copper earthing rod having 2000mm long and 20mm dia to be manufactured as per detail shown on drawing. To be couple with bare copper conductors with clamp. Earth rod shall be installed below permanent water table , all nuts and bolts, complete in all respect.	Nos	9			
7.04	Copper Conductor	Supply, installation and connections of earthing leads consisting of stranded electrolytic copper conductor of following sizes to be installed in prelaidd G.I pipe and connected to tinned copper spike and to ECP as per detail shown on drawings or as per the instructions of the engineer. Earthing leads shall be installed in G.I pipe, including cost of brass nuts, bolts, washers, all necessary accessories,complete in all respects. Joints of copper conductor with G.I pipe shall be covered with 3 coats of bitumen. NOTE: Length of conductor shall depend upon the depth of the bore. Payment shall be made as per actual length installed.					
i		70 mm sq. Bare SCC as Earth Lead. (Spike to ECP)	Rft	1,680			
ii		70 mm sq. SCC PVC Insulated (ECP Earth Pit to Equipment)	Rft	525			
iii		95 mm sq. Bare SCC as Earth Lead. (Spike to ECP)	Rft	480			
iv		95 mm sq. SCC PVC Insulated (ECP Earth Pit to Equipment)	Rft	150			
7.05	UPVC Conduit and Accessories	Supply and installation of heavy duty 40mm dia UPVC conduit to be embedded in Floor, as per Drawing/ site conditions including cost of all PVC Electrical conduit accessories, steel pull wires, complete in all respects.	Rft	700			
7.06	Earth Connecting Point (ECP)						
a		Supply and installation of sactionable copper test link in electrical room made of copper plate not less than 150mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall, brass nuts, bolts, washers,including cost of all necessary materials, complete in all respects.	Nos	9			
b		Supply and installation of sactionable copper test link in electrical room made of copper plate not less than 300mm long x 50mm wide x 6mm thick with necessary holes, all fixing accessories of the copper plates on the wall, brass nuts, bolts, washers,including cost of all necessary materials, complete in all respects.	Nos	6			
7.07	Earth pit / Inspection Chamber	Construction of Earth pit / Inspection Chamber as per dimension and detail shown in drawing with heavy duty RCC cover with lifting hooks and these words written with paint on cover "EARTHING PIT", complete in all respects.	Nos	9			
7.08	Earthing of Steel Structure	Providing and installation of complete earthing system for steel structure, including independent earth pit, earthing conductor, clamps, connectors, test link and all required accessories. Earth resistance shall not exceed 5 Ohms, including testing and commissioning, complete in all respects.	Job	1			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
7.09	Testing	Testing of the earthing system with "Earth Tester" along with other testing accessories. Testing shall be performed in the presence of the Engineer and written test result duly verified by the Engineer shall be submitted to the Client for his record. Earth Resistance of each Earth Pit will be less than 1 Ohm.	Job	1			
SUB-TOTAL SECTION B-7 – Earthing System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-8: LIGHTNING PROTECTION SYSTEM							
8.01	Early Streamer Air Terminal	Supply, installation, testing and commissioning of Early Streamer Emission (ESE) having following specifications: Make:Indelec/Application Technologies/Approved Equivalent EARLY STREAMER Material: Stainless Steel / as per manufacturer's specifications Level of Protection: Level1 Minimum Protection Radius: 50m Air terminal Height:Air teminal height over the surface to be protected:4M Including Air Terminal with 1½" Brass adaptive piece mast for connection of cable/tape to be fixed on top of Galvanized steel mast as shown on drawings including cost of all necessary accessories, complete in all respects.	No	1			
8.02	Earth Rod	Supply at site and installation of Rod Type Earthing System comprising of 2 Meter long and 25mm dia 99.99% pure Copper Rod, laid in the soil 3" Dia Bore, filled with Earth Enhancing material, including the cost of multipurpose clamps for the connection of 1C-70mm2 PVC Ins. Cu.Cond Earth leads, complete in all respects.	Nos.	6			
8.03	Manhole	Construction of 300x300x300mm water tight RCC manhole with 6" thick walls with removable Cover 4" thick, including angle iron frame (3" x 3" x 1/4") with lifting hooks, as per the design / construction drawings, complete in all respects	Nos.	2			
8.04	Copper Conductor	Supply at the site, laying and installation of the 99.99% PVC Insulated stranded copper conductor as an Earth Lead (For connection between Earth Rods, connection of Earth Rods with ECP and for the connection of Manhole ECP with Colum ECP), laid in pre-laid PVC Electrical conduit inside the PCC / Raft Foundation / as per the design / construction drawings, complete in all respects. Actual length of conductor shall be measured at site by Contractor duly authenticated by the employers electrical engineer before placing the order and shall be paid accordingly. However, approximate length of cables are shown herewith. Payments shall be made as per actual length installed.					
i.		1C-70 mm sq. SCC PVC Insulated	Rft.	100			
8.05	ECP (Earth Connecting Point)	Supply and installation of 99.99% pure Copper Tin Platted Earth Connecting Point (ECP) having the size of 6" (Length) x 3" (Width) x 1/2" (Depth), to be installed inside the Earth Rod Manhole / RCC Column with necessary accessories, Reinforced Polyester insulators, holes, nuts, bolts, cover and other required accessories, as per the design / construction drawings, complete in all respects. The ECP will be suitable for 4x70mm2 cable connections.	Nos	2			
8.06	UPVC Conduit and Accessories	Supply and laying of 40mm / 1.5" Dia heavy duty Class-D UPVC Electrical conduit laid inside the PCC / Raft foundation / as per the site conditions for the laying of Earth Lead running between the Earth Grid and Rod Type Earthing, complete with all UPVC accessories and necessary metarials, complete in all respects.	Rft.	100			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
8.07	Earth Strip	Supply at site and installation of copper strip of size 25mm wide x 3mm thick to be installed in vertical position on walls from Steamer to Earth Pit as shown on drawings or as required as per site conditions, including cost of Naval brass cable, tape parallel clamp, Nylon conductor clip with 17mm height to secure copper tape, brass screws, guard tube tape and all necessary fixing material / accessories, complete in all respects.	Rft.	250			
8.08	Lightning Event Counter	Supply at site, installation and connection of Surge/Lightning Event Counter ahead of guard tube for indicating the number of surges arrested by the Early Streamer Emission.	No	1			
8.09	Testing	Complete Testing of the Entire above-mentioned LPS Earthing System with Earth Testing Reports, complete in all respects. Testing will be performed under the supervision of site incharge / engineer incharge.	Job	1			
SUB-TOTAL SECTION B-8 – Lightning Protection System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-9: CCTV SYSTEM							
9.01	CCTV Wiring & Conduiting	Wiring of camera with 4 Pair CAT-6 UTP cable in 1" dia PVC heavy duty pipe as per site requirements, from RJ45 outlet (for camera) to patch panel including cost of RJ 45 outlet with 16 SWG sheet steel back box recessed in wall / wall surface, complete in all respects.	Points	75			
9.02	Outdoor Camera	Supply at site, installation, testing & commissioning of Full HD Outdoor IP-65 Rated IP Based POE CCTV, Day and Night Type with minimum 4 MP resolution pieces IR LED , Vandal proof Body, with at least 20-30 meters IR visibility, including mounting bracket, all fixing and mounting accessories, complete in all respects, including cost of all required accessories / materials.	Nos.	15			
9.03	Indoor Camera	Supply at site, installation, testing & commissioning of Full HD Indoor Dome Type IP Based POE CCTV, Day and Night Type with minimum 2 MP resolution pieces IR LED , Vandal proof Body, with at least 20-30 meters IR visibility, including mounting bracket, all fixing and mounting accessories, complete in all respects, including cost of all required accessories / materials.	Nos.	60			
9.04	Network Video Recorder & Gigabit Switches						
a)		Supply at site, installation, testing & commissioning of NVR suitable for 80 number of cameras with Built In software including cost of 30 days storage Hard drive & Minimum 4x41" LED including all necessary hardware, software, accessories and materials, complete in all respects.	Job	1			
b)		Supply at site, installation, tagging, connections, testing and commissioning of following switches, including cost of power bus bar, IDC connectors, all necessary accessories complete in all respects.					
i.		24 Port Giga Bit POE + 4 SFP ports switch with 24 Port Patch Panel & Cable Manager.	Nos.	4			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.</i>						
SUB-TOTAL SECTION B-9 – CCTV System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-10: UNINTERRUPTIBLE POWER SUPPLY (UPS)							
10.01		UPS with Battery Bank	Nos.	2			
		Supply at site, installation, testing and commissioning of three phase Brand New UPS of 10 kVA capacity of Approved manufacturer with 20 Minutes Backup @ 80% load, PF not less than 0.9. Including Dry VRLA Battery bank with racks. UPS will be pure sin waved, compliance with EN 62040 Class A, output voltage 415 V AC, 50Hz, with high pass and low pass filter, Bypass arrangement, Double conversion online technology, built-in Transient Voltage Surge Suppressor, reduces the harmonic current reinjected into the distribution system, all protections from incoming and outgoing sides including all installation accessories as per specifications complete in all respects as approved by engineer incharge.					
10.02		Supply and installation of 32 Amp 5 Pin Industrial socket for UPS connection complete in all respect and ready to use.	Nos.	4			
SUB-TOTAL SECTION B-10 – Uninterruptible Power Supply (UPS) (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-11: PUBLIC ADDRESS SYSTEM							
11.01		Providing, installation, testing of following Power Amplifier with Music system / Audio Player having SD card, USB, Aux inputs with all accessories for Speaker system Complete with all respect and ready to use.					
i		180W Amplifier for Common Areas	Nos.	1			
ii		60W Amplifier for Class Rooms	Nos.	4			
iii		120W Amplifier for Seminar Room	Nos.	1			
11.02		Providing and Installation of 6 Watt Ceiling Speaker, as per drawing.	Nos.	16			
11.03		Providing and Installation of 20 Watt Wall mounted Speaker, as per drawing.	Nos.	12			
11.04		Providing and Installation of 20 Watt Wall mounted weather proof Speaker, as per drawing.	Nos.	2			
11.05		Providing & installation of wiring of Speaker System devices with 2 Core twisted 1.5sq.mm, Speaker cable in 25mm dia PVC pipe from Amplifier to speakers, complete in all respect.	Points	28			
11.06	Data Cabinet	Supply at site and installation of following sizes Data racks for the fixing of network switches, Patch Panels with cable organizer, splice trays, perforated doors with locks, mounting rails, leveling feet, 2 removable side door, PDU, exhaust fans etc. including all installation accessories as per specification complete in all respect to the approval of engineer.					
i.		9 U data Cabinet	Nos.	5			
11.06		Testing, Commissioning and proper tagging of Speaker System by authorized local representative of the manufacturer.	Job	1			
	Note:- It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.						
SUB-TOTAL SECTION B-11 – Public Address System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-12: DIESEL GENERATOR SET							
12.01	General Specifications:	Supply at site, Installation at designated location including Loading, Unloading and Lifting (If Required), connection of cables, testing and commissioning of water cooled NEW diesel engine generating sets suitable for operation at 50 deg C ambient temperature and 90% relative humidity.					
		Assembled in accordance with their provided drawings / manuals and consisting of painted welded steel bed plate frame work to accommodate engine alternator complete with electronic governor to give regulation to BS: 514 class A1.					
		Equipped with balanced flywheel, water jacket heaters energized by the in coming main supply, 4 Pole Protection Circuit Breaker, Vibration Isolators, heavy duty starting batteries, Exhaust Silencer, battery charger, set of spare oil/fuel filters engine panel with oil pressure and water temperature gauge, pressure and water temperature gauge, (Electrical), alternator, electronic automatic voltage regulator and governor, radio interference suppressors, electronic tachometer frequency meter voltmeter with selector switch. Emergency stop push button, radiator, with water level switch, suitable for 400 / 230 volts, 50 cycles/second, at 1500 rpm @ 110% Loading, for 3 phase 4 wire system, including cost of all necessary material / accessories, daily fuel tank and conforming to technical specifications.					
	Sound Attenuated Canopy	Sound attenuated canopy made of 14 SWG M.S sheet of size to be given by manufacturer with inspection gates on each side with locking mechanism one door for electric panel inspection having glass for instruments visibility and louvers for air intake. The canopy will result 80dba noise level at distance of one meter at 100% Genset Loading from outside of its walls. The canopy will be air dry painted. The hollow area of canopy will be filled with glass wool. The canopy shall be made by manufacturer approved by Engineer with proper lighting arrangement complete with all necessary accessories / materials.					
	Genset Foundation	Providing and constructing of RCC foundation with 1:2:4 steel reinforcement as per design and requirement of generator manufacturer or as per structural design to be given by Consultant, including thermophore 1" thick on all the four sides of generator, M.S steel bars, as per size required, refilling of excavation area. Thickness and specs of Floating Foundation shall be as per structural design, all necessary materials, complete in all respects.					
	Generator Set General Specifications	Governor Regulation Class: ISO-8528					
		Voltage Regulation No Load to Full Load: +1%					
		Engine Aspiration: Turbo Charged & Air Cooled					
		Engine & Radiator Working Ambient Temperature: 50 Deg Celsius					
		Relative Humidity for Engine & Radiator Operations: 90%					
	Alternator General Specifications	Alternator Working Ambient Temperature: 50 Deg Celsius					
		Output Voltages: 400V 3 Phase 4 Wire Wye					
		Overload Capability: 110% Loading					
		Excitation Method: Shunt / PMG					

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
		Frequency: 50 Hz					
		Alternator Insulation Class: Class-H					
		Stator Pitch : 2/3					
		Power Factor: 0.8					
		Protection Trip Unit: Adjustable MCCB 4 Pole having Overload & Short Circuit Rating as per the SLD & Genset Rating. Make: Terasaki (Japan) / Schneider (EU) / Legrand (EU) / ABB (EU)					
	Genset Transient Performance Parameters	As per the ISO-8528-5 G2 Class requirements the Diesel Genset will provide the following values under transient conditions:					
		Steady State Voltage: +2.5%					
		Steady State Frequency: +1.5%					
		Frequency Droop: 5%					
		Frequency Variation at 60% Load Acceptance: 10%					
		Voltage Variation at 60% Load Acceptance: 20%					
		Frequency Variation at 100% Load Rejection: 12%					
		Voltage Variation at 100% Load Rejection: 25%					
		Frequency Recovery Band: 2%					
		Voltage Recovery Band: 5%					
		Frequency Recovery Time: 5 Seconds or less.					
		Voltage Recovery Time: 6 Seconds or less.					
		The contractor/vendor/manufacture will verify these values under above-mentioned testing conditions using a real-time Power Analyzer. This verification will be the part of the genset FAT/SAT testing.					
	Genset Controller	Genset Controller/module at minimum will be capable of showing parameters that are Line to Line Voltages, Line to Neutral Voltages, Line Currents, KVA, KW, KVAR, KWH, Frequency, Power Factor, % KVA Loading, Battery Volts, Engine Temperature, Coolant Temperature, Engine Oil Temperature, Engine Oil Pressure, RPM, Running Hours, Safety Alarms Related to Engine and Alternator and Fuel Consumption (Liter/Hour). Approved Model: Deepsea DSE7320 MKII / DSE7420 MKII / Eqv					
<i>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</i> <i>The bidder/contractor will provide complete technical literature of Genset equipment (Engine, Alternator, etc.), including deration curves of the engine and alternator at required ambient conditions, authorized distributor & brand genuineness certificates of the engine and alternator, import GD documents, Engine & alternator factory testing reports as per the relevant standards, complete in all respects.</i>							
a)		500 KVA Prime Rated Diesel Generator	Nos	1			
b)		250 KVA Prime Rated Diesel Generator	Nos	1			
12.02	Diesel Storage Tank & Allied Accessories	Supply ,Transportation, Loading and Unloading 2000 Litter Fuel Storage Tank at Ground Floor. including all accessories (Elbow, Tee, Socket etc.) Complete in all Respects as per the drawing and instructions by the Employer representative.	Nos	1			
		Type : Horizontal Cylinder Flat end.					

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
	Standard: ASME SEC VIII / API650, DIN 6616	Shell and End Thickness :4mm					
	Fuel Tank Shell be Finished with Two Coats of Base Primer and Top Finish with 200-Micron thick layer of Enamel.	Software calibrated Glass Gauge with Software Generated Scale Strip.					
Notes: 1) All Inlets and outlets pipes location to be coordinated as per site by the vendor. 2) Tank shall be certified by third party and stamped for compliance of codes and standards. 3) Drawing to be submitted by the vendor for approval before fabrication.							
Note: It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.							
SUB-TOTAL SECTION B-12 – Diesel Generator Set (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-13: SOLAR PV SYSTEM							
13.01	PV MODULES	Solar PV Modules N type Bi facial 610/615 Wp of Capacity 200kW , IEC certified, high efficiency with junction box, MC4 connectors, and cables. Including mounting structure, warranty for 25 years and mechanical mounting compatibility.	Job	1			
13.02	ON GRID INVERTER	On Grid Three phase Inverter 200 kW, IP66 with no derating at 45 digress, includes string level monitoring and all protections including Type 2 SPD, over-voltage, under-voltage, short-circuit, and over-temperature complete with all required accessories.	Nos	1			
13.03	WIRING & ACCESSORIES	Supply, installation, testing and commissioning of complete Solar PV DC & AC cabling system, including DC cables from PV modules to inverters and AC cables from inverters to AC distribution panels/boxes, complete with appropriately sized UV-resistant cables, conduits, cable trays, glands, lugs, connectors and terminations. Including AC/DC protection boxes, DC isolators and associated protection/accessories, suitable for outdoor/rooftop installation, complete in all respects as per approved drawings and specifications.	Job	1			
13.04	TESTING & COMMISSIONING	Testing & Commissioning: Includes insulation resistance test, performance test, polarity check, string verification, and commissioning certificate. Ensures system is fully operational and connected to grid as per local utility requirements.	Job	1			
Note: It should be clearly understood by the contractor / bidder / supplier that the above mentioned items shall be complete in all respects, including cost of necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder / supplier.							
SUB-TOTAL SECTION B-13 – Solar PV System (carried to Grand Summary)							

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION B-14: MISCELLANEOUS WORKS (ELECTRICAL)							
14.01		Providing and application of approved fire-rated mortar/sealant for sealing all electrical ducts and cable/conduit penetrations through walls and slabs, maintaining the required fire rating, including all accessories and finishing, complete in all respects.	Job	1			
14.02		Before start of execution works the contractor shall supply one soft copy and three hard copies of Shop drawings which clearly indicate all as per site changes and specially cable routes, panel location, etc. Coordination drawing for all MEP services.	Job	1			
14.03		On completion of the works the contractor shall supply one soft copy and three hard copies of As-built drawings which clearly indicate all amendments, junction boxes, pull boxes, etc. The As-built drawings shall indicate the entire electrical installation as actually carried out on site including telephone, fire alarm system, electrical wiring, LV switchgear panels, distribution panels and schematic diagram.	Job	1			
14.04		Following document must be submitted after completion of electrical work.	Job	1			
a)	DB's Load Balance Report						
b)	Fluke Test Report						
c)	Megger Test Report						
d)	Earth Test Report						
SUB-TOTAL SECTION B-14 – Miscellaneous Works (Electrical) (carried to Grand Summary)							

PART C – PUBLIC HEALTH (PLUMBING) & FIRE-FIGHTING WORKS

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION C-1: PLUMBING FIXTURES							
1.1	WALL HUNG W.C	Providing, Fixing and Installing Wall hung W.C ceramics ware including muslim shower with double bibcock, concealed cistern with hinged double seat and cover of best quality. Also, fixing the connection pipes and all joints to services and drains. Plugging and screwing the structure as necessary and make good the same, complete in all respect as per specifications and drawings as well as directed by the Engineer. Items Included: Wall Hung W.C With Seat Cover; Concealed Cistren; Push Button; Muslim Shower; Double bibcock	Nos.	24			
1.2	WASH HAND BASIN VANITY	Providing and fixing wash hand basin vanity Under counter including basin mixer with waste coupling & bottle trap and fixing connection pipes, connections to water lines, nuts, washers, etc. complete in all respect as per specifications and drawings as well as directed by the Engineer. Items Included: Wash Hand Basin Vanity; Basin Mixer; Bottle Trap; Waste Coupling; Tee Stop Cock	Nos.	18			
1.3	MOP SINK	Provide and install in position SS Mop Sink in Janitor Room including chemical cupboard to be fabricated in 304 Taiwan 18 Gauge including sink mixture with all fitting. Complete in all respects as per the instructions of the Client. Note: recheck the size at site before going into production for accuracy.	Nos.	2			
1.4	CORE CUTTING	Cutting of R.C.C slab via core cutter of suitable diameter by using proper technique and equipment for the crossing of utility pipes and its water proof refilling with useful materials complete in all respect as per specifications and drawings as well as directed by the Engineer.	Nos.	32			
1.5	SOAP DISPENSER	Providing and fixing Automatic soap dispenser including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer. Items Included: Soap Dispenser	Nos.	18			
1.6	TOILET PAPER HOLDER	Providing and fixing chromium plated toilet paper holder including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer. Base Prices: Toilet Paper Holder	Nos.	24			
1.7	LOOKING GLASS	Providing and fixing looking glass 5mm thick first quality complete with fixing clamps including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer. Base Prices: Looking Glass; Looking Glass Clamp	Sft.	108			
1.8	HAND DRYER	Providing and fixing electrical hand dryer with automatic sensor having fastest drying time of 12 seconds, temperature of 104 Fahrenheit. hand dryer must have noise Level of 60dB and automatic shut off including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer. Items Included: Hand Dryer	Nos.	6			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of all necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</i>						
	SUB-TOTAL SECTION C-1 – Plumbing Fixtures (carried to Grand Summary)						

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION C-2: INTERNAL WATER SUPPLY SYSTEM							
2.1		Providing, fixing, jointing and testing Polypropylene Random (PPR) PN20 pressure pipe for cold, hot and hot water return water as per DIN 8077-8078 for pipes and DIN 16962, PN25 for fittings (polyfusion welded joints) inside building including fittings and specials (sockets, tees, elbows, bends, crosses, reducers, adaptor, plugs and union etc.) supported on walls or suspended from roof slab or run in chases including pipe hangers, supports, walls cutting for pipelines, complete in all respect as per specifications and drawings as well as directed by the Engineer.					
		25 mm dia	Rft.	364			
		32 mm dia	Rft.	95			
		40 mm dia	Rft.	185			
		50 mm dia	Rft.	88			
		63 mm dia	Rft.	196			
2.2	GATE / BALL VALVE	Providing and installing gate/ball valves of following nominal dia, of approved equivalent make ,including jointing ,fitting, painting, testing, complete in all respects to match with following PPR pipe diameters.					
		32 mm dia	Each	3			
		40 mm dia	Each	4			
		50 mm dia	Each	2			
		63 mm dia	Each	1			
2.3	INSULATION OF PIPE	Providing and laying insulation on hot water/ pipes running on roof/ exposed/ burried with 25mm thick elastomeric insulation for exposed and 9mm thick for embedded pipes as per ASHRAE 90.1 of approved equivalent as per standard including all necessary accessories required for insulation, complete in all respect as per specifications and drawings as well as directed by the Engineer.					
		50 mm dia	Rft	30			
		63 mm dia	Rft	145			
2.4	PE PIPE	Providing, transportation, laying, cutting, butt fusion jointing, testing, commissioning & disinfecting the Polyethylene Pipe (PE-100), PN 8, of SDR 21 of any of the manufacturer DADAX and BETA or approved equivalent including fixing all type of fittings and special such as tee, bend, cross collar, reducer, tail piece, flanged spigot, end cap, flanged socket, taper, angle branch, plug etc. complete in all respects (Including Injection molded fittings) as recommended by the manufacturer.					
		50 mm dia	Rft	280			
		63 mm dia	Rft	75			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of all necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</i>						
	SUB-TOTAL SECTION C-2 – Internal Water Supply System (carried to Grand Summary)						

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION C-3: INTERNAL SEWERAGE, VENTS & ROOF DRAINAGE WORKS							
3.1		Providing, fixing, jointing and testing uPVC pipe including all fittings such as tees, bends and reducers. Also it includes the cost of joint solutions & clamping to walls, ceiling hangers, supports, cutting through walls for pipelines and pipe fittings of the following diameters, complete in all respect as per specifications and drawings as well as directed by the Engineer. BSEN 1329					
		50 mm dia	Rft.	133			
		100 mm dia	Rft.	841			
		150 mm dia	Rft.	418			
		200 mm dia	Rft.	273			
		CLASS :D: BS 3505/PS 3051 (For Pressure Pipe)					
		2 inch dia pipe	Rft.	30			
3.2	FLOOR DRAIN	Providing and fixing 4" dia Floor Drain with P-trap including Stainless Steel grating and cover of approved make including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	Nos.	28			
3.3	CLEAN-OUT	Providing and fixing 4" dia Clean-out for uPVC Pipes including Stainless Steel Cover Plate of approved make, core cutting of Slab concrete and its water proofed refilling as approved by Engineer In charge and complete in all respect.	Nos.	4			
3.4	SOUND PROOFING	Providing and laying insulation on upvc pipes with Armawave or approved equivalent as per standard, including all necessary accessories required for sound proofing, complete in all respects					
		Horizontal Pipe 4 inch dia	Rft.	420			
3.5	BRICK WORK MANHOLE	Construction of square manhole of 2'x2' for sewer complete with 9" thick brick work ratio 1:3, plastering from internal and external side Ratio 1:3, PCC 1:4:8 base, RCC slab, benching with 1:2:4 cement concrete, including 18" dia manhole cover and frame, including all necessary accessories required for installation, complete in all respect as per specifications and drawings and as directed by the Engineer.	Each	12			
3.6	GULLY TRAP	Construction of square gully trap of 6" x 6" for sewer complete with 9" thick brick work ratio 1:3, plastering from internal and external side Ratio 1:3, PCC 1:4:8 base, steel grating 6" x 6", P-trap, benching with 1:2:4 cement concrete including all necessary accessories required for installation, complete in all respect as per specifications and drawings and as directed by the Engineer.	Nos.	3			
3.7	SURFACE DRAIN WITH GRATING	Providing, fabrication and fixing in position steel grating for drain with base slab and walls of PCC 1:1-1/2:3 as per drawing and SS grating i.e 1-1/2" x 1-1/2" x 1/8" outer frame angle embedded in concrete, with steel flats 1/2" x 1/2" @ 1" c/c, including enamel paint with priming coat of approved color, complete in all respect as per specifications and drawings and as directed by the Engineer.					
		9 inch wide	Rft	115			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of all necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</i>						
	SUB-TOTAL SECTION C-3 – Internal Sewerage, Vents & Roof Drainage Works (carried to Grand Summary)						

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION C-4: FIRE-FIGHTING SYSTEM							
4.1	FIRE EXTINGUISHER	Providing and fixing NFPA approved portable fire extinguishers of following types and capacities at desired locations, complete in all respects.					
a)		Dry Chemical Powder Fire Extinguisher: Portable, Stored Pressure Type Highly Effective on A, B, C & E Class of Fire, Capacity : 06Kg Model : NP6 Fire Rating : 34A 183B Working Pressure : 14 Bar Tested at Pressure : 30 Bar	Nos.	8			
b)		CO2 Fire Extinguisher: Portable, Stored Pressure Type Highly Effective on E Class of Fire, Capacity : 05Kg Fire Rating : 70B Working Pressure : 15 Bar Tested at Pressure : 30 Bar	Nos.	2			
4.2	MS PIPE	Providing and fixing Mild Steel Schedule 40 Seamless Pipes including all fittings such as tees, bends and reducers with cost of clamping to walls and ceiling hangers, supports, cutting through walls and concrete in slabs with core cutter firestop sealant / firestop compound must be applied where applicable, for pipelines and pipe fittings of the following diameters complete in all respect.					
		2-1/2" dia (65mm)	Rft.	180			
4.3	PE PIPE	Providing and fixing HDPE Pipes (High-Density Polyethylene) PE-100 of specified PN 12.5 rating including all fittings such as tees, bends, elbows, reducers, and couplers with cost of clamping to walls and ceiling hangers, supports, cutting through walls and concrete in slabs with core cutter, jointing with electrofusion or mechanical couplers as required for pipelines, complete in all respects for the following diameters					
		4" dia (110mm)	Rft.	712			
4.4	GATE / BALL VALVE	Providing and installing gate/ball valves of following nominal dia, of approved make, including jointing, fitting, painting, testing, complete in all respects to match with following pipe dia meters.					
		2-1/2" dia (63mm)	Nos.	6			
		4" dia (100mm)	Nos.	3			
4.5	HOSE REEL CABINET	Providing, Installing, testing and commission fire hose reel cabinets, swing type hose reel in cabinet, Dia 1" x 100' long, swing type with imported high pressure PE pipe house, and imported jet/spray/shut nozzle, in steel cabinet (34" x 32" x 10.5") where indicated on drawings including all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	Nos.	6			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
4.6	PILLAR TYPE FIRE HYDRANT	Providing, Installing, testing and commissioning Pillar type fire hydrants with inlet flanged 4" size with double deliveries 2-1/2" female instantaneous coupling with blank cap and chain, including External Fire hose cabinet IP66 rated comprising of Dia 2.5" x 100' long, swing type with imported high pressure Canvas pipe house, and imported jet/spray/shut nozzle, in steel cabinet (34" x 32" x 10.5") where indicated on drawings all necessary accessories required for installation, complete in all respect as per specifications and drawings as well as directed by the Engineer.	Nos.	2			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of all necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</i>						
	SUB-TOTAL SECTION C-4 – Fire-Fighting System (carried to Grand Summary)						

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION C-5: MISCELLANEOUS WORKS (UGWT, OHWT, SEPTIC TANK, GEYSERS)							
5.1	STORAGE GEYSER	Providing, Installing, testing and commissioning of storage type geysers of approved make of following capacities complete with inlet, outlet, safety valves complete in all respects.					
		15 Liters (Electric)	Nos.	2			
		30 Liters (Electric)	Nos.	4			
5.2	UNDERGROUND WATER TANK	This includes:- Construction of RCC Tank excavation work, PCC (1:4:8), RCC (1:2:4) Raft, Walls, Beams, Slab Cement plaster of walls, Chips on walls and bed, Iron Steps, Manhole cover, including sleeves and puddle flange in R.C.C. under ground water tank walls, pipe connection (Hot Dip G.I) with inlet / outlet pipe work, manhole covers, floating ball valve etc, including all necessary accessories required for sleeves placing, Complete in all respect as per drawings or design and approval of Architect /Company.	Gln	5,000			
5.3	SEPTIC TANK (Size: 15'x8'x7')	Construction of RCC septic Tank, excavation work, PCC (1:4:8), RCC (1:2:4) Raft, Walls, Slab Cement plaster of walls, Chips on walls and bed, Iron Steps, Manhole cover, Providing, placing sleeves in pipe connection (UPVC) with inlet / outlet pipe work etc, including all necessary accessories required for sleeves placing, complete in all respects.	Job	1			
	<i>Note:</i>						
	<i>It should be clearly understood by the contractor / bidder that the above mentioned items shall be complete in all respects, including cost of all necessary materials / accessories whether mentioned or not but are required for proper functioning of the system shall be deemed to be included in the cost of each above mentioned items, no extra charge shall be paid or claimed by the contractor / bidder.</i>						
	SUB-TOTAL SECTION C-5 – Miscellaneous Works (UGWT, OHWT, Septic Tank, Geysers) (carried to Grand Summary)						

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION C-6: PLUMBING EQUIPMENT SCHEDULE							
6.1	WATER SUPPLY BOOSTER (MINI)	Supply, Installing, fixing, testing and commissioning of Water Pressure Booster Pump (1 working + 1 standby) with a capacity of 40 USGPM each against a total pumping head of 100 feet. The pump shall be provided with Pressure vessel of capacity 25 Liters with control panel having auto / manual switches, dry running protection, low / high level water controls with alternative standby duty operation system, suction and discharge manifolds, pressure switch, complete in all respects.	Set.	1			
6.2	SUMP PUMPS	Providing, Installing, testing and commissioning non-clogging, centrifugal submersible Drainage sump pumps 50 gpm against a total pumping head of 30 ft (one running one standby). coupled with water cooled IP Class 68 electric motor of 220 volts, 3 - phase, 50 Hz. of approved make with auto / manual switches, dry running protection, low / high level water controls, gate valves, NRV, flexible Joints, with alternative standby duty operation system).All accesories/consumables to be provided by contractor.	Set.	1			
SUB-TOTAL SECTION C-6 – Plumbing Equipment Schedule (carried to Grand Summary)							

PART D – HVAC WORKS

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
SECTION D-1: HVAC WORKS (VRF SYSTEM, VENTILATION & DUCTWORK)							
1	VRF System – T3 Inverter Heat & Cool Type Condensing Unit	Supply, Installation, testing & commissioning of All DC Inverter Controlled Variable Refrigerant Flow (VRF) Heat Pump T3 Type Multi Split A/C System complete with built-in auto control system & Central Controller, including unloading, Lifting, placing & fixing, complete in all respect as per drawings.					
a)		ODU.01-28.0 Ton	Nos	1			
b)		ODU.02-10.0 Ton	Nos	1			
c)		ODU.03-20.0 Ton	Nos	2			
d)		ODU.04-18.0 Ton	Nos	1			
e)		ODU.05-22.0 Ton	Nos	1			
f)		ODU.06-20.0 Ton	Nos	1			
g)		ODU.07-15.0 Ton	Nos	2			
2	VRF Associated Indoor Units	Supply, Installation, Testing & commissioning of 3 Speed Ducted Type, Cassette Type & Floor standing type indoor units with associated VRF CU as per drawing.					
i)	Cassette Type Indoor Unit with Condensate Drain Pump						
a)		CIU-4 Ton	Nos	22			
b)		CIU-2 Ton	Nos	8			
ii)	Wall Mount Indoor Unit						
a)		WIU-1 Ton	Nos	24			
b)		WIU-2 Ton	Nos	3			
iii)	MAHU for Fresh Air						
a)		MAHU for Fresh Air	Nos	2			
3	VRF Copper Piping	Supply, Installation, Testing & Commissioning of Gas & Liquid Copper Piping & Fittings of BS-659 Complete with filter dryer, slight glass, isolation valves and Control Wiring between indoor and outdoor units. clamps/hangers/supports and all other related material for installation purpose complete in all respect as specified.					
a)		3/8"	Rft	2,500			
b)		3/4"	Rft	2,800			
c)		1 1/8"	Rft	3,500			
d)		5/8"	Rft	2,025			
e)		1/2"	Rft	1,500			
f)		1 1/4"	Rft	1,200			
4	Y-Joint	Supply, installation of Refrigerant Distributer (Y-Type) Pipe Joints at locations as shown on drawings	Lot	1			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
5	VRF Copper Pipe Insulation	Supply, installation testing and commissioning of flexible close cell elastomeric foam insulation with covering laminate of aluminum, fire retardant, environment friendly, 19mm thick of thermal conductivity 0.035 W/mK AT 23C as per specifications and as shown on drawings with all accessories to complete the work..					
a)		3/8"	Rft	2,500			
b)		3/4"	Rft	2,800			
c)		1 1/8"	Rft	2,150			
d)		5/8"	Rft	2,025			
e)		1/2"	Rft	1,500			
f)		1 1/4"	Rft	1,200			
6	Cool Only Split Ac Units (For Electrical/IT Room)	Supply, installation testing & commissioning of split A/C units cool only with 0 ODP, environmental friendly gas of approved brand following capacity with latest (model/year) indoor unit, outdoor unit, base plate wall mounted, ceiling hanging & ducted indoor unit type, wall brackets for outdoor unit rawal plug, suitable length of control cable and etc. complete in all respect as shown on drawings and specified.					
i	Wall Mounted Type Unit						
a)		1.5 Ton	Nos	1			
7	Split AC Copper Piping & Insulation	Supply, Installation and Testing of Gas & Liquid Copper Piping & Fittings of heavy Gauge Complete with flexible close cell elastomeric foam insulation with covering laminate of aluminum, fire retardant, environment friendly, 19mm thick of thermal conductivity 0.035 W/mK AT 23C as per specifications and as shown on drawings with all accessories to complete the work..					
a)		1.5 Ton	Rft	50			
8	Condensate Drain Piping	Supply and installation of E-Class UPVC piping & fittings with insulation cross-linked polyolefin (XLPE) thermal insulation 12mm thick with factory applied aluminum foil facing of thermal conductivity 0.035 W/mK AT 23C, density 25kg/m3, with all accessories to complete the work. the product shall be UL/FM approved and class 0 specifications.					
a)		1"	RFT	1,500			
b)		1 1/4"	RFT	285			
c)		1 1/2"	RFT	530			
d)		2"	RFT	75			
9	Ventilation Fans	Supply, installation testing & commissioning of following type of exhaust/supply fans with hanger, supports, nut bolts, sound attenuators (so the noise level should not exceed from 60 dBA at full load). including electrical connections, safety devices, motor starter if required as recommended by the manufacturer. Complete in all respects as shown on drawings and as per the equipment schedule. IP66, F Class, IE2 Motor for upto 2hp Motors, IE3 Motor for greater than 2hp.					
a)		EF-01 Ducted Cabinet Type (1500 CFM & 1.0" ESP-Supply Air Fan with 2" thick washable Filter)	Nos	2			
b)		EF-02 Ducted Cabinet Type (350 CFM & 1.0" ESP-Supply Air Fan with 2" thick washable Filter)	Nos	2			

Sr. No.	Item	Description	Unit	Quantity	Rate (Rs.)	Unit Rate in Words	Amount (Rs.)
10	Duct Work	Supply, fabrication and installation as per specifications and as shown on drawings Galvanized Iron Sheet-metal (of Grade G-80 & zinc Coating of Class Zn-275) work including all bends, tees, connection to grilles, volume control dampers, fresh air louvers, splitter dampers, access doors, hangers, supports, rods and wooden frames (for ducts crossing walls). All duct work shall be constructed comply to SMACNA standards and all accessories necessary to complete the work.					
a)		U.S GAGE 24	Sft	3,500			
b)		U.S GAGE 26	Sft	2,200			
c)		VCD (Volume Control Damper)-16-Gauge	Sft	35			
11	Duct Flexible Connector	Supply & Installation of duct flexible connector of specified material and coatings and width as per drawings with all accessories and fittings complete in all respect as approved and directed by Engineer Incharge.					
a)		Robust Polyester with PVC Coating 6" wide	Rft	300			
12	Duct Insulation	Supply, installation testing and commissioning of insulation as per specifications and as shown on drawings cross-linked polyolefin (XLPE) thermal insulation of thermal conductivity 0.032- 0.035 W/mK AT 23C, density 25kg/m3, 12mm thick factory applied reinforced aluminum foil facing and self adhesive backing with all accessories to complete the work. the product shall be UL/FM approved and class 0 specifications	Sft	5,700			
13	Air Devices	Supply, installation and testing of air inlet/outlet devices including fittings, fixing with all necessary items to complete the work complete in all respects as shown on drawings.					
i)	Aluminium 4-Way Diffusers with 1.2 mm thick electrostatic powder coated						
a)		4-Way Diffuser	Sft	30			
14	Air Curtain	Supply, Installation, testing and commissioning of air curtain (remote control operated), along with all fitting, connections, control, stand for hanging etc. complete in all respects ready to operate as per drawings and as per instruction of Engineer. "10ft throw"					
a)		8 Ft Wide	Nos	2			
15	Miscellaneous						
i		Air Balancing, Shop drawings and As-built drawings.	Job	1			
ii		Gas charging	Job	1			
iii		Providing and application of approved fire-rated mortar/sealant for sealing all HVAC shafts and ducts penetrations through walls and slabs, maintaining the required fire rating, including all accessories and finishing, complete in all respects.	Job	1			
iv		Related civil works including (wall/slab cutting, patching, plastering etc.) and construction of equipment foundation.	Job	1			
SUB-TOTAL SECTION D-1 – HVAC Works (VRF System, Ventilation & Ductwork) (carried to Grand Summary)							

Annexure-I: Material Approved List (MAL) – Electrical & ELV Systems

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Approved Vendor / Supplier
1	11kV HT Panels for WAPDA	PEL	042-5812014; 0302-8230579	PEL, Lahore
		South Asian Concern	Abdur Rehman 0334 9795205	South Asian Electrical Concerns
		Green T&D	042-35297159; 0344-4459481	Green T&D
2	Oil Type Transformer	PEL	042-5812014; 0302-8230579	PEL, Lahore
		Transfopower	042-35294166; 0320-7889283	Transfopower, Lahore
3	Dry Type Transformer	Schneider		
		Trafo Elettro, Italy	Sadam 0300 8477751	CXOR Engineering
		ABB	Zeeshan 0337 4999766	Bilal Engineering
4	Main LT Panel Boards, Sub Main Panel Boards, Motor Control Centers, Power factor Improvement Plant, Distribution Boards	Power Solutions	Mazhar 0333 4465863	
		Power Engineers	Asim 0335 0312976	Power Engineers
		Subhan Engineering	Rehan 03061373546	Subhan Engineering
		South Asian Concern	Abdur Rehman 0334 9795205	South Asian Electrical Concerns
		Volamp	Waseem 0333 1702690	Volamp
5	Isolators	Lovato	042-111000520; 0321-4221709	Jubilee Corporation
		Socomec		
		SCAME	Bilal 0314 4131031/03049686588	Jadeed Engineering
6	High Tension (HT), Low Tension (LT), Single Core & Multi Core Cables	Pakistan Cables	Shehzad 03208451760	Pakistan Cables, Lahore
		Newage Cables	Shahzad Latif 03018472264	Newage Cables, Lahore
		Fast Cables	Mubashir 0321 6698974	Fast Cables, Lahore
7	Bus Trunking System	Schneider	Asim Riaz 03018408508	Schneider, Lahore
		Power Duct	Sadam 0300 8477751	CXOR Engineering
		ABB	Zeeshan 0337 4999766	Bilal Engineering
		Pogliano	Mansoor Pasha 03008548550	Jubilee Corporation
8	Wiring Accessories (Switches, Sockets, Telephone & Computer Socket)	Clipsal	Waseem 03222880057	Power House, Lahore

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Approved Vendor / Supplier
		Legrand	Waseem 03222880057	Power House, Lahore
		Orange	Hamd 03224834937	Orange, Pakistan
		SCAME	Bilal 0314 4131031/03049686588	Jadeed Engineering
9	Floor Boxes	Davis	0322-2880030	Power House, Lahore
		Legrand	042-7670980	Shahid International, Lahore
		JEI	Abdullah 03218421997	JEI
10	PVC Conduits & accessories	Beta	0301-8492131; 0301-8492127	Shafi Sons, Lahore
		Dadex	042-111000789; 0321-4722195	Dadex
		Popular	+92 321 8480139	Popular Pipes
11	Fans (Ceiling, Bracket, Exhaust)	Royal Fan	042-11176925-1	Royal Fan
		Voldam		Asia
		Pak fan	042-3726091-94	Pak Fans
12	Data Networking Cable	Corning	Usman 0333 4666986	Business IT
		Molex	Rehan 0317 3175319	NETSOFT
13	Fire Alarm & Detection System	Honey Well -Gent	Abdul Rehman 0300 3321122	Safe & Sound Engineering
		Zeta UK	Ayesha 0307 3345294	Secure Vision
		Eaton	Sadam 0300 8477751	CXOR Engineering
14	CCTV / Security Surveillance System	Dahua	Hisham 0322 7778629	Astaa Technologies
		Hikvision	Hisham 0322 7778629	Astaa Technologies
		Bosch	0301-8502042	Secure Vision
		Axis	0301-8502042	Secure Vision
15	Steel/G.I Conduit & Accessories	IIL	IIL	IIL International Industries Ltd.
		Jamal Pipes	111808909; 0312-4318845	Jamal Pipe Industries (Pvt.) Ltd
16	Cable Tray / Trunking, Ladder & Accessories	Multitek	Husnain 030004442404	Multitek
		Ashraf Industries	+92 42 35745901-2	Ashraf Industries
		South Asian Concern	Abdur Rehman 0334 9795205	South Asian Electrical Concerns
		Ercon	Ali Saleem 03006583334	Ercon International
		Subhan Engineering	Rehan 03061373546	Subhan Engineering

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Approved Vendor / Supplier
17	Back boxes, Pull boxes & Junction Boxes	Hussain & Co.	+92-21 36341930	Hussain & Co.
		Clipsal	0322-2878003	Power House, Lahore
		SCAME	Bilal 0314 4131031/03049686588	Jadeed Engineering
		ABB	0423-2560700	ABB, Lahore
18	Light Fixtures	NVC	Imran Aziz Alvi 0321 9492864	ST Engineering Solutions
		Opple	Shabbir 03334557208	Opple Pakistan
		Coats	Noman 03312273277	Power House
19	Emergency Lights	Pierlie	Noman 03312273277	Power House
		Eaton		
		TM Poland	Ali Raza 0331 4593445	Eyelogy Inc
		THORN	Bilal 0314 4131031/03049686588	Jadeed Engineering
20	Telephone/EPABX / IP PABX System	Panasonic	Hisham 0322 7778629	Astaa Technologies
		Alcatel	0345-2191910	Al-Futtuim Technologies Pakistan
21	Uninterruptable Power Supply (UPS)	APC	0320-3000546	Multilink Engineering
		ABB	042-111-765-765; 0333-0321284	SM Jaffer & Co.
		Atom	Ayesha 0307 3345294	Secure Vision
		Power ware/Eaton	111354111; 0346-1119394	Greaves Pakistan
22	Sound / Public Address System	TOA	03212600102	Universal Overseas
		Bosch	042-32560257; 0321-8456258	CNS Engineering
		ITC	Ali Raza 0331 4593445	Eyelogy Inc
		AXIS	0301-8502042	Secure Vision
23	Access Control System / Hotel Door Lock / Biometric Solution	Salto	0301-8502042	Secure Vision
		HID	042-32560257; 0321-8456258	CNS Engineering
		Honeywell	0301-8502042	Secure Vision
24	MATV & SMATV System	WISI	+92-213-4528541	Pak Security & Safety System
		TRIAx		
		PDI		
25	Earthing & Lightning Protection System	APPLICATION TECHNOLOGIES	Sadam 0300 8477751	CXOR Engineering
		Indelec	Moazam 0300 2008982	CECLPK
		LPS France	Bilal 0314 4131031/03049686588	Jadeed Engineering

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Approved Vendor / Supplier
		Jeflash	Affan 03228092588	Eyelogy Inc
26	Diesel Generator Set	Caterpillar (USA)	Abdul Wadood 0333 4669340	Allied Engineering
		Cummins (European)	Umer Farooq 03008440430	Orient Energy Systems
27	Hanging Support System	Fischer	Babar 03470242256	Fischer
		Index		
		Hilti		
28	Hotel Room Wiring/Electrical Accessories	Clipsal	0322-2878003	Power House, Lahore
		ABB		
		SCAME	Bilal 0314 4131031/03049686588	Jadeed Engineering
29	Diesel Bulk Storage Tank	Local	Shoaib 03004244550	Multitek
30	Fire Alarm Cable	Firecel	Sadam 0300 8477751	CXOR Engineering
		Daraka	Irfan 03212600102	Universal Overseas
31	EMT Conduits & accessories	Jadeed Enginnering	Bilal 0314 4131031/03049686588	Jadeed Engineering
		Key Power Solutions	Asghar 03218937608	Key Power Solutions
		Ezzi Engineering	Mazher Faizullah 0300-8222577	Ezzi Engineering
32	Smart Automation System	Extron	Wasif 0321 4277009	Orient AV Pvt Ltd
		Lutron		Synergy
		Clevtron		Clevtron
		Life Smart	Wasif 0321 4277009	Orient AV Pvt Ltd

Notes:

- 1) All material should be procured directly from Manufacturer or Authorized distributor/Dealer
- 2) Submittals to be submitted to the consultant for verification of technical specifications and necessary approval.
- 3) Contractor can Quote or approved equivalent.

Annexure-II: Material Approved List (MAL) – HT & LT Switchgear Components

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Proposed Vendor / Supplier
1	11KV HT Panels for WAPDA	PEL	042-5812014; 0302-8230579	PEL, Lahore
		South Asian Concern	Abdur Rehman 0334 9795205	South Asian Electrical Concerns
		Green T&D	042-35297159; 0344-4459481	Green T&D
2	Main LT Panel Boards, Sub Main Panel Boards, Motor Control Centers, Power factor Improvement Plant, Distribution Boards	Power Solutions	Mazhar 0333 4465863	
		Power Engineers	Asim 0335 0312976	Power Engineers
		Subhan Engineering	Rehan 03061373546	Subhan Engineering
		South Asian Concern	Abdur Rehman 0334 9795205	South Asian Electrical Concerns
		Volamp	Waseem 0333 1702690	Volamp
3	Air Circuit Breaker (ACB), Moulded Case Circuit Breakers (MCCB) TP 500 V-AC, Residual Current Circuit Interrupter (RCCI) & MCB	Schneider	Bilal 0321 4689252	Imperial Electric
			Shahryar 0344 2055544	Oliver
		ABB	042-35758466; 0345-8555282	AVS
		Terasaki	042-111000520; 0321-4221709	Jubilee Corporation
4	Magnetic Contactor, Star Delta Starter, Soft Starter, DOL Starter	ABB	042-32560700; 0301-8472264	AVS
		Schneider	042-7537711-14;0301-8472264	Imperial Electric
		Terasaki	042-111000520; 0321-4221709	Jubilee Corporation
5	Current/Potential Transformers	Entes	042-111000520; 0321-4221709	Jubilee Corporation (Only CT)
		Sezgin (Turkyie)	042-36310561,0300-8454165	E-Links Pakistan
		Hoburt (England)	042-36310561,0300-8454165	E-Links Pakistan
		Efen (Hungary)	042-36310561,0300-8454165	E-Links Pakistan
		Metelx (Pakistan)	0345-4757875; 0321-9483127	Zamteq Electric
		Revalco	042-111000520; 0321-4221709	Jubilee Corporation (Only CT)
6	Ammeters (Digital) & Voltmeters (Digital)	RIVALCO	042111000520; 0321-4221709	Jubilee Corporation
		Entes		Mubashir Electronics
		VTEKE (Turkey)	0345-4757875; 0321-9483127	Zamteq Electric
		LUMEL (POLAND)	042-36310561,0300-8454165	E-Links Pakistan
		Sinusoid	Ali Raza 0331-4593445	Eyeloggy
7	Selector Switches (Ammeter Selector) ASS (Voltmeter Selector)VSS	Kraus & Niamer	042-111000520; 0321-4221709	Jubilee Corporation
		ILX (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Proposed Vendor / Supplier
8	Indication Lamps	Camsco		
		Fuji	042-35758466; 0307-5553956	Sh. Wilayat & Sons
		Lovato	042-111000520; 0321-4221709	Jubilee Corporation
		ILX (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan
		GGT	042-36310561,0300-8454165	E-Links Pakistan
9	Wiring Terminals/Splicing Connectors	VTEKE (Turkey)	0345-4757875; 0321-9483127	Zamteq Electric
		Schneider	0301-8472264; +92-4235842030	Hamid Automation
		CIAMA	042-35758466; 0307-5553956	Sh. Wilayat & Sons
		Klemsan (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan
		Tbloc (Turkey)	0345-4757875; 0321-9483127	Zamteq Electric
10	Internal Wiring	Wago	03018472264; +92-4235842030	Hamid Automation
		Pakistan Cables	0320 8451760; 0300-8503556	Pakistan Cables, Lahore
11	Cable Lugs and Ferrules	Newage Cables	+92 333 4748210	Newage Cables, Lahore
		Cembre		Local Market
12	Power Factor Capacitors, controllers, relays	Raychem		Local Market
		3 M	042-32560257; 0321-8456258	CNS Engineering
		Schneider Electric	042-35758466	Sh. Wilayat & Sons
		Shizuki	042-35758466	Sh. Wilayat & Sons
		Klemsan (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan
13	Change Over Switch (COS)	ZEZ Silko (CEZ Republic)	042-36310561,0300-8454165	E-Links Pakistan
		Nokian	042-111000520; 0321-4221709	Jubilee Corporation
		SOCOMEK	042-111000520; 0321-4221709	Jubilee Corporation
		Techno Electric		
		GGT (Hungary)	042-36310561,0300-8454165	E-Links Pakistan
14	Surge Protective Devices	ILX (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan
		Gave	042-111000520; 0321-4221709	Jubilee Corporation
		DEHN	042-111000520; 0321-4221709	Jubilee Corporation
		Hager	042-111000520; 0321-4221709	Jubilee Corporation
		Raycap		
15	Smart Digital Energy Meters	Schneider	042-35758466	Sh. Wilayat & Sons
		Janitza	042-111000520; 0321-4221709	CXOR
		Circutor		ITEC Group
		Klemsan	042-36310561,0300-8454165	E-Links Pakistan
16	Energy Analyzers	Lovato		Jubilee Corporation
		Schneider	042-111000520; 0321-4221709	Hamid Automation
		Klemsan (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan
		LUMEL (POLAND)	042-36310561,0300-8454165	E-Links Pakistan
17	ON / OFF Push Buttons	Sinusoid	Ali Raza 0331-4593445	Eyelog
		Fuji	042-35758466; 0307-5553956	Sh. Wilayat & Sons

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Contact Details	Proposed Vendor / Supplier
		Lovato	042-111000520; 0321-4221709	Jubilee Corporation
		ILX (Turkiye)	042-36310561,0300-8454165	E-Links Pakistan
		GGT	042-36310561,0300-8454165	E-Links Pakistan
		VTEKE (Turkey)	0345-4757875; 0321-9483127	Zamteq Electric
		Wago	03018472264; +92-4235842030	Hamid Automation
18	Variable Frequency Drives (VFD)	ABB		
		Schneider	042-35758466; 0307-5553956	Sh. Wilayat & Sons
		LS	042-35758466; 0307-5553956	Sh. Wilayat & Sons
		Siemens		

Notes:

- 1) All material should be procured directly from Manufacturer or Authorized distributor/Dealer
- 2) Submittals to be submitted to the consultant for verification of technical specifications and necessary approval.
- 3) GA drawings of Panels & DBs to be shared with consultant for approval
- 4) Contractor can Quote or approved equivalent.

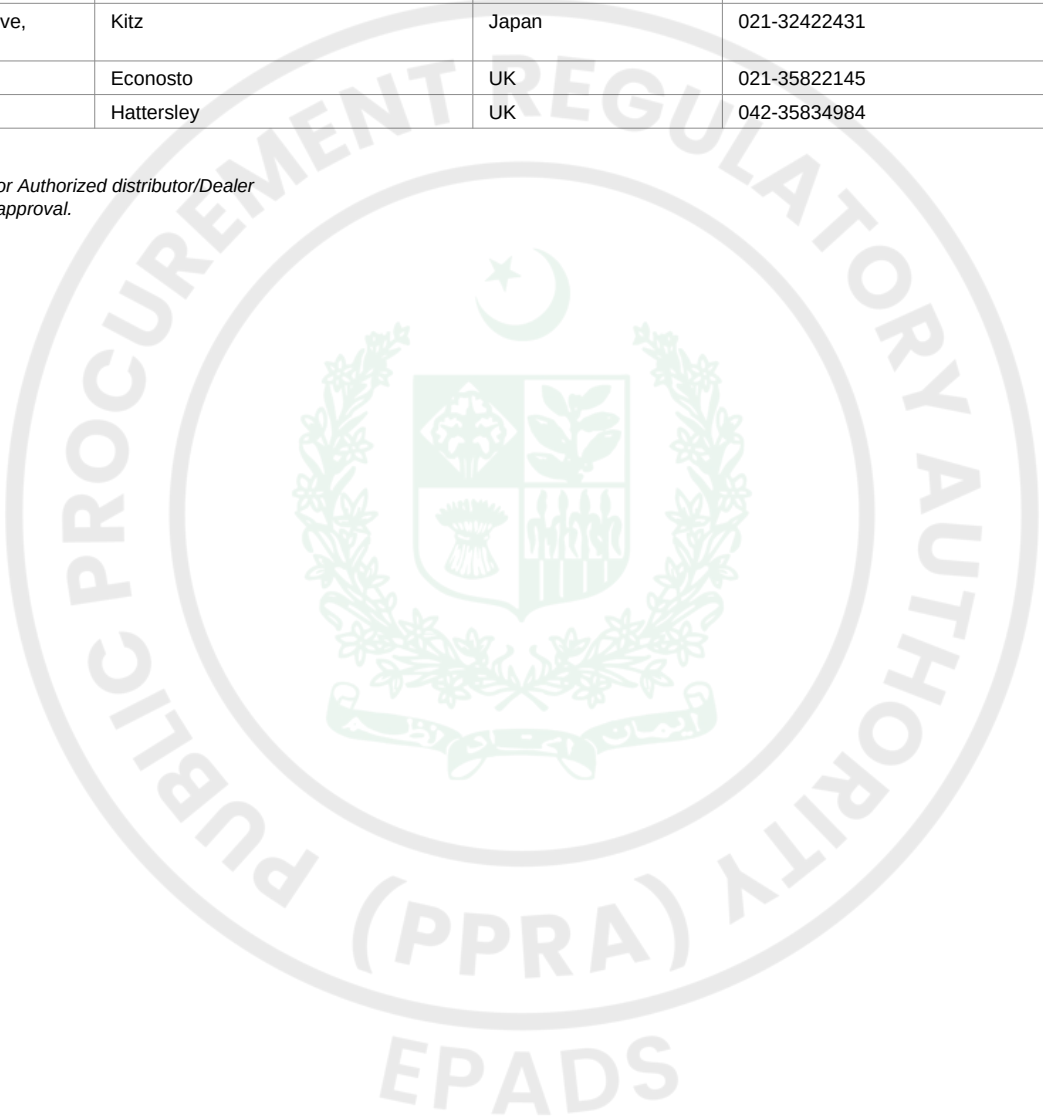
Annexure-III: Material Approved List (MAL) – Plumbing & Fire-Fighting Systems

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Country Of Origin	Contact Details	Approved Vendor / Supplier
	PART-1 WATER SUPPLY				
PH-1	PPRC	International			
		Firat	Turkey	0321-4824414	Ajmal Brother
		Hakan Plastik	Turkey	042-37220407	Butt Brothers -Lahore
		Dadex	Pakistan	021-111-000-789	Dadex Imported
		Local			
		Dadex	Pakistan	021-111-000-789	Dadex Pakistan
		Beta	Pakistan	042-3517-2409	Shafisons Pakistan
		Astun MAF	Pakistan	042-3517-2409	Shafisons Pakistan
PH-2	Gate Valve,Non- Return Valve, Ball Valve, Float Valve	Kitz	Japan	021-32422431	A.Karimjee & Sons
		Econosto	UK	021-35822145	Fakhri Brothers
		Hattersley	UK	042-35834984	Khan Brothers - Lahore
PH-3	Pressure Reducing Valves	Singer	Canada	021-34978916	Integ - Karachi
		Pintossi	Italy	021-4546521	IME - Karachi
		Hattersley	UK	042-35834984	Khan Brothers - Lahore
	PART-2 SEWERAGE , VENTS & ROOF DRAINAGE				
PH-4	UPVC pipe	International			
		Firat	Turkey	0321-4824414	Ajmal Brother
		Hakan Plastik	Turkey	042-37220407	Butt Brothers -Lahore
		Dadex	Pakistan	021-111-000-789	Dadex Imported
		Local			
		Dadex	Pakistan	021-111-000-789	Dadex Pakistan
		Beta	Pakistan	042-3517-2409	Shafisons Pakistan
		Astun MAF	Pakistan	042-3517-2409	Shafisons Pakistan
PH-5	P-Trap	Dadex	Pakistan	021-111-000-789	Dadex Pakistan
		Beta	Pakistan	042-3517-2409	Shafisons Pakistan
		Astun MAF	Pakistan	042-3517-2409	Shafisons Pakistan
PH-6	Floor Drain- Roof Drain		Pakistan	042-37926267	Afzal Brothers
PH-7	Clean Out		Pakistan	042-37926267	Afzal Brothers
	PART-3 Fire Fighting				
FF-1	Fire Fighting M.S Pipe	Huffaz	Pakistan		
FF-2	Pipe Hanging Support System	Index	Spain	051-5538709	MM - Steel Rawalpindi
		Fischer	UK	051-5511748	H.S Ahmed Ally Trader
		Sikla	Germany	051-2806301	Ingenious Engineering Products
FF-3	Gate Valve,Non - Return Valve,Ball Valve, Float Valve	Kitz	Japan	021-32422431	A.Karimjee & Sons
		Econosto	UK	021-35822145	Fakhri Brothers

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Country Of Origin	Contact Details	Approved Vendor / Supplier
FF-4	PE Pipes	Hattersley	UK	042-35834984	Khan Brothers - Lahore
		Dadex	Pakistan	021-111-000-789	Dadex Pakistan
		Beta	Pakistan	042-3517-2409	Shafisons Pakistan
		Hakan Plastik	Turkey	042-37220407	Butt Brothers -Lahore
FF-5	Sprinklers	Globe	USA	042-36367222	Haseen Habib
		Vicking	USA	042-35114522	Safe & Sound Engineering
		Firex	UAE	0300-8151672	Fisher - Firex
FF-6	Fire Fighting Landing Valves, Breach Inlets, etc	Firechief	Pakistan	042-36367222	Haseen Habib
		NAFFCO	UAE	042-35114522	Safe & Sound Engineering
FF-7	Zone Check Assembly	Firechief	Pakistan	042-36367222	Haseen Habib
		NAFFCO	UAE	042-35114522	Safe & Sound Engineering
		Firex	UAE	0300-8151672	Fisher - Firex
FF-8	Fire Fighting Cabinet	Firechief	Pakistan	042-36367222	Haseen Habib
		NAFFCO	UAE	042-35114522	Safe & Sound Engineering
		Firex	UAE	0300-8151672	Fisher - Firex
FF-9	Fire Fighting Pumps	Fair Bank	USA	042-36367222	Haseen Habib
		NAFFCO	UAE	042-35114522	Safe & Sound Engineering
		Firex	UAE	0300-8151672	Fisher - Firex
	PART-4 Miscellaneous				
M-1	Water Transfer Pumps	Grundfos	Denmark	0334-4298894	MEP Solutions
		KSB	Germany	0302-8744448	Dominar Engineers
		DAB	Italy	0300-8482031	DAB Pumps - Metron Intl
		Xylem	USA	0301-1108613	AVS
M-2	Water Supply Booster Pumps	Grundfos	Denmark	0332-4477544	Grundfos - Orient Energy
		KSB	Germany	0302-8744448	Dominar Engineers
		Xylem	USA	0301-1108613	AVS
		DAB	Italy	0300-8482031	DAB Pumps - Metron Intl
M-3	Sewerage & Drainage Pumps	Grundfos	Denmark	0332-4477544	Grundfos - Orient Energy
		KSB	Germany	0302-8744448	Dominar Engineers
		DAB	Italy	0300-8482031	DAB Pumps - Metron Intl
		Xylem	USA	0301-1108613	AVS
M-4	Geyser	Boss	Pakistan	055-3845991-7	
		Ariston			
		Canon	Pakistan	0333-9450498	
M-5	Manhole Cover	Itlas	Pakistan		
		Rashid	Pakistan		
M-6	Pipe Hanging Support System	Index	Spain	051-5538709	MM - Steel Rawalpindi
		Sikla	Germany	051-2806301	Ingenious Engineering Products
		Fischer	UK	051-5511748	H.S Ahmed Ally Trader

MAL SR #	Material Description	Proposed Manufacturer/MAKE	Country Of Origin	Contact Details	Approved Vendor / Supplier
	PART-5 Gas Supply				
G-1	G.I Pipes	IIL	Pakistan	043-111-019-019	International Industries Ltd.
		Jamal Pipes	Pakistan	042-37960515-16	Jamal Pipe Industries (Pvt.) Ltd
G-2	Gate Valve,Non- Return Valve, Ball Valve, Float Valve	Kitz	Japan	021-32422431	A.Karimjee & Sons
		Econosto	UK	021-35822145	Fakhri Brothers
		Hattersley	UK	042-35834984	Khan Brothers - Lahore

Note(s):
1) All material should be procured directly from Manufacturer or Authorized distributor/Dealer
2) Submittals to be submitted to the consultant for necessary approval.
3) Contractor can Quote or approved equivalent.



Annexure-IV: Material Approved List (MAL) – HVAC Systems

Sr. No.	Material	Manufacturer/Vendor
1	Split ACs / VRF	Gree, Haier, Hisense or Approved Equal
2	Refrigerant Pipe	Mueller (USA), Golden dragon (China) or Approved Equal
3	Fan Coil Units	Trane, Carrier, York or Approved Equal
4	Seamless Pipes for Chilled Water System	Huffaz or Approved Equal
5	Water Valves & Piping Specialties	Kitz or Approved Equal
6	Door Fire Curtain	NAFFCO or Approved Equal
7	Instruments & Gauges	Watts or Approved Equal
8	Canvas Cloth	Pakistan Fibers or Equivalent
9	Air Inlets & Outlets	EAP, Shan Industries, or Approved Equal
10	Fire Dampers, Volume Dampers	Thermec or Approved Equal
11	Condensate Drain uPVC / PPR Piping	Dadex, Beta, Vesbo or Approved Equal
12	Duct, Piping & Conduiting Support System, Fixing Bolts	Hilti, Fisher, Sikla or Approved Equal
13	Flexible Round Duct	AFS, Superlon, Flexiva or Approved Equal
14	G.I / SS / Al. / Metal sheet	Pakistan Steel, ISL or Approved Equal
15	Insulation for Ducting and Piping	Aeroflex or Approved Equal
16	Control Cables	Pakistan Cables, Newage, Fast Cables or Approved Equal
17	Duct Sealant	Zahabiya or Approved Equal
18	Paints	ICI or Approved Equal

Note(s):

- 1) All material should be procured directly from Manufacturer or Authorized distributor/Dealer
- 2) Submittals to be submitted to the consultant for necessary approval.
- 3) Contractor can Quote or approved equivalent.

Islamabad, Dated: September 24, 2026

Subject **MINUTES OF THE PRE-BID MEETING HELD ON SEPTEMBER 24, 2026
FOR CONSTRUCTION OF PRE-ENGINEERED BUILDING (PEB) FOR
INDUSTRY HUB – DAANISH UNIVERSITY, ISLAMABAD**

A pre-bid meeting in respect of the procurement for **“Construction of Pre-Engineered Building (PEB) for Industry Hub – Daanish University, Islamabad”** was held on September 24, 2026 at the office of the Secretary, Daanish University Trust, Islamabad, as well as through Zoom. The meeting was attended by members of the Procurement Committee, the Consultant and representatives of prospective bidders. The list of participants is placed at **Annex-I.**

2. The Project Director, Daanish University, welcomed the participants and informed that the bidding documents had been uploaded on EPADS on September 20, 2026 under the Single Stage-Two Envelope procedure in accordance with the applicable procurement rules. He explained the background and objectives of the procurement and invited the Consultant to give an overview of the proposed project. The Consultant briefed the participants regarding the scope and major components of the proposed Industry Hub, which comprises a covered area of approximately 40,000 sq. ft. and includes foundation/grey structure works, design, fabrication and erection of the Pre-Engineered Building (PEB) structure, roofing and cladding, finishing and interior works, electrical works, plumbing, VRF/HVAC system and associated allied and enabling works. The contractor will also be responsible for mobilization, temporary facilities, quality assurance and testing, site clearance, supervision, coordination and documentation, and completion of the works in accordance with the approved drawings, specifications and applicable standards. The Consultant further explained the key technical requirements, including the specialized nature of the PEB structure, the required design capability, fabrication and erection arrangements, quality assurance requirements, HSE requirements and fast-track completion requirements. It was also emphasized to bidders that only properly filled in forms, mandatory requirements will be considered for evaluation of proposals. The prospective bidders were thereafter invited to raise questions and seek clarification regarding the bidding documents.

3. The queries raised by the prospective bidders and the clarifications provided by the Procurement Committee/Consultant are recorded below:

Sr. No.	Queries / Clarifications Sought by Prospective Bidders	Clarification by the Procuring Agency
1.	Whether PRA tax and other applicable taxes would be applicable and whether the quoted rates should include such taxes.	It was clarified that the quoted bid prices shall be inclusive of all applicable taxes, duties, levies and other charges required for completion of the works. The bidding document also provides that the quoted rates shall be inclusive of applicable taxes and other charges.
2.	What is the amount of Bid Security and how is it to be submitted?	It was clarified that the required Bid Security is Rs. 20.00 million in the form specified in the bidding documents. Submission of the Bid Security is mandatory, failing which the bid shall not be accepted. The original Bid Security shall be submitted in Hard form to the address given in the advertisement/tender notice, and its copy shall also be uploaded on EPADS. The Bid

Sr. No.	Queries / Clarifications Sought by Prospective Bidders	Clarification by the Procuring Agency
		Security shall be prepared in the name of DDO, Daanish University Trust, Islamabad.
3.	Reasons for not permitting Joint Ventures (JV), Consortiums or Associations.	It was clarified that the bidding documents specifically provide that, owing to the fast-track nature of the project, bidding through Joint Ventures, Consortiums, Associations or any other form of joint bidding is not permitted. The bidder is required to be a single legal entity having full responsibility and demonstrated capacity to execute the works. The requirement has been framed in view of the specialized nature of the PEB works and the accelerated completion requirements, under which the Procuring Agency requires a single entity with direct responsibility for design, fabrication, supply, erection and associated works.
4.	What is the duration of the assignment and what would be the procedure for extension of time, if required?	It was clarified that the project has been structured for fast-track completion, with the Shell & Core, reception area ready in all respect with architectural works required to be completed by March 22, 2027, followed by completion of the building in all respects within the period stipulated in the bidding document i.e May 31, 2027. Any extension of time, where warranted, shall be considered and processed in accordance with the applicable provisions of the Contract.
5.	Why have specific software names been mentioned in the requirements for PEB design?	It was clarified that the software referred to in the bidding document, including examples such as MBS-based PEB design software, STAAD. Pro and Tekla Structures, is intended to establish the bidder's design capability and availability of appropriate licensed software. The requirement is not intended to restrict bidders to any particular brand or software, and equivalent suitable software may be used, provided that the required design capability and outputs are demonstrated. <i>Further for any specific material specs mentioned in the bid requirement, the bidders may quote its equivalent material.</i>
6.	What is the present status of the site and whether electricity will be provided by the Client?	It was informed that 50 acres of land is available at the Daanish University site along Park Road, Islamabad, and the site is available for inspection by prospective bidders. Location of the site https://maps.app.goo.gl/zHSBUGcYvexhuz6b6?g_st=iw Regarding electricity and other temporary utilities required during construction, it was clarified that the Contractor shall make arrangements at its own cost, as provided in the Scope of Work. The Contractor is required to arrange temporary electricity/power, including standby generation where required, for construction purposes.

Sr. No.	Queries / Clarifications Sought by Prospective Bidders	Clarification by the Procuring Agency
7.	What would constitute a “similar project” for the purpose of evaluation?	It was clarified that similar experience shall be assessed in accordance with the evaluation criteria prescribed in the bidding documents. The relevant experience includes completed PEB projects of the specified size and nature, particularly projects demonstrating experience in institutional/educational PEB buildings and other specified PEB capabilities. Bidders shall provide the documentary evidence required under the bidding documents, including completion certificates, signed contracts/work orders and other supporting documents specified therein.
8.	What is the specific design responsibility of the Contractor in relation to the PEB building?	It was clarified that the Contractor shall be responsible for the design of the PEB structure, including the design capability required under the bidding documents, whereas the associated civil/architectural requirements shall be executed in accordance with the designs/drawings and specifications provided/approved by the Consultant/Engineer. The Contractor shall be responsible for design, fabrication, supply and erection of the PEB structure in accordance with the approved requirements.
9.	Whether the Geotechnical Investigation Report of the site has been prepared and will be provided to the bidders.	It was informed that the Geotechnical Investigation Report is under preparation. The report, upon completion and approval, will be shared with the bidders.
10.	Whether any advance payment would be available, considering the requirement for advance procurement of steel and other materials for PEB fabrication.	It was clarified that a mobilization advance payment of up to 15% of the Accepted Contract Amount, excluding Provisional Sums, is provided under the bidding documents, subject to the prescribed terms and conditions and submission of the required Advance Payment Guarantee. It was further clarified that secured advance against eligible Plant and Materials brought to the Site may be paid in accordance with the relevant provisions of the Contract, subject to fulfillment of the prescribed requirements and submission of the required security/guarantee.
11.	Since the Contractor is responsible for PEB design, whether variations may arise during execution due to design requirements.	It was clarified that the Contractor shall undertake the PEB design in accordance with the requirements, parameters and specifications contained in the bidding documents and shall obtain the requisite approvals. Any variation arising during execution shall be dealt with strictly in accordance with the relevant provisions of the Contract and shall require approval of the Engineer/competent authority before execution, as applicable. The Contract provides a defined procedure for variations
12.	Whether the bidders would be required to give a presentation on their proposed methodology.	It was clarified that the Procuring Agency may, where considered necessary, seek a presentation/clarification from the bidder regarding its proposed construction methodology, programme, resource mobilization and execution arrangements, in accordance with the bidding documents and applicable procurement procedure.

Sr. No.	Queries / Clarifications Sought by Prospective Bidders	Clarification by the Procuring Agency
13.	Clarification regarding the BOQ uploaded on EPADS and the format in which the bidders are required to submit their BOQs.	It was clarified that the detailed BOQ has been prepared and will be uploaded on EPADS through a corrigendum. The detailed BOQ (Annexed on EPADS) shall form the basis for submission and evaluation of the financial bids. All bidders shall quote their rates and amounts against each and every BOQ item strictly in accordance with the description, specifications, units and quantities provided in the detailed BOQ and shall submit the duly completed BOQ in the prescribed format. <u>No item shall be left blank.</u> In case a bidder leaves any BOQ item blank or does not quote a rate for any particular item, the highest rate quoted by any responsive bidder for that particular item shall be inserted for the purpose of determining the bidder's total evaluated bid price. After opening of the financial bids, arithmetic checking shall be carried out. In case of any discrepancy between the unit rate and the corresponding total amount, the unit rate shall prevail and the total amount shall be corrected accordingly. In case of any discrepancy between the amount stated in figures and the amount stated in words, the amount in words shall prevail. Any other arithmetic errors or discrepancies shall be dealt with in accordance with the applicable provisions of the bidding documents. Bidders are therefore advised to carefully review the complete BOQ specifications and Scope of Work and ensure that all applicable items are duly priced before submission of their financial bids.
14.	Clarification regarding submission of Technical and Financial Bids and the BOQ uploaded on EPADS	It was clarified that in addition to the submission of bids on EPADS, without which the bid shall not be accepted, the bidders shall submit one (01) hard copy each of the Technical Bid and Financial Bid to the address given in the advertisement / tender notice before the closing date, duly completed and signed/stamped by the authorized representative of the bidder, in accordance with the requirements of the bidding documents. The Bid Security in the prescribed form and amount shall accompany the Technical Bid. Submission of the required Bid Security along with the Technical Bid is mandatory. Any bid submitted without the required Bid Security shall be rejected as non-responsive and shall not be considered for further evaluation. The Financial Bid shall be prepared strictly in accordance with the detailed BOQ and prescribed format to be

Sr. No.	Queries / Clarifications Sought by Prospective Bidders	Clarification by the Procuring Agency
		uploaded on EPADS through a corrigendum. The bidders shall carefully examine the complete BOQ and quote rates against each and every item. No item shall be left unpriced or omitted, and the quantities, units, descriptions and format of the BOQ shall not be altered by the bidders. The duly completed Financial BOQ shall form an integral part of the Financial Bid. The Financial Bid shall be placed in a separate sealed envelope, clearly marked in bold letters as “FINANCIAL BID”, and the envelope shall be securely sealed in such a manner that its contents are not accessible or opened during the submission and Technical Bid evaluation process. The Financial Bid shall not be opened at the time of opening/evaluation of the Technical Bids and shall remain sealed until the financial opening is conducted in accordance with the applicable procurement procedure. Financial bids of only technical qualified firms will be opened. The bidders shall also ensure that the hard-copy Financial Bid/BOQ is consistent with the financial information submitted through EPADS. The bidders are advised to carefully check the completeness and accuracy of their Technical and Financial Bids before submission and ensure strict compliance with the prescribed submission requirements.

4. The meeting with a vote of thanks by the Chair with the assurance that the replies to their queries will be uploaded on EPADS

List of Participants

- i. Mr. Akram Kamal, Project Director, Daanish University Trust, Islamabad
- ii. Mr. Shah Jehan, Secretary, Daanish University Trust, Islamabad
- iii. Mr. Asim Khanzada, DD (Dev), M/o FE&PT
- iv. Mr. Faud Ali, Imtiaz Ali Associates (Pvt.) Ltd.
- v. Mr. Rehan Rauf, General Manager - Banu Mukhtar Pvt. Ltd.
- vi. Mr. Ramiz Siddiq - EEPL
- vii. Mr. Ahsan Razaqat - Ittefaq Group Head Office
- viii. Mr. Rizwan Sarwar, General Manager - Izhar Construction
- ix. Mr. Shahid Bashir, General Manager- Elite Engineering Pvt Ltd
- x. Mr. Aliyan Khan, AQ Builders Pvt. Ltd
- xi. Mr. Naveed Afzal Khan, Premium Engineering Pvt. Ltd
- xii. Mr. Khushi Muhammad Adil, General Manager, Premium Engineering Pvt. Ltd

CONSTRUCTION EXPERIENCE

Form EXP - 4.1

General Construction Experience

Bidder's Name: _____

Date: _____

JV Member's Name _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

Starting Year	Ending Year	Contract Identification	Role of Bidder
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	
		Contract name: _____ Brief Description of the Works performed by the Bidder: _____ Amount of contract: _____ Name of EMPLOYER: _____ Address: _____	

Form EXP - 4.2(a)
Specific Construction and Contract Management Experience

Bidder's Name: _____

Date: _____

JV Member's Name _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount				PKR equivalent
If member in a JV or sub-contractor, specify participation in total Contract amount				
EMPLOYER's Name:				
Address:				
Telephone/fax number				
E-mail:				

Form EXP - 4.2(a) (cont.)
Specific Construction and Contract Management Experience (cont.)

Similar Contract No.	Information
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	
2. Physical size of required works items	
3. Complexity	
4. Methods/Technology	
5. Construction rate for key activities	
6. Other Characteristics	

Form EXP - 4.2(b)
Construction Experience in Key Activities

Bidder's Name: _____

Date: _____

Bidder's JV Member Name: _____

Sub-contractor's Name (if any): _____

Bid Reference No. (if any) and title: _____

Page _____ of _____ pages

All Sub-contractors for key activities must complete the information and Qualification Criteria and Requirements, Sub-Factor 4.2.

1. Key Activity No One: _____

Information				
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Sub-contractor ☐
Total Contract Amount	PKR equivalent			
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity in the contract (i)	Percentage participation (ii)	Actual Quantity Performed (i) x (ii)	
Year 1				
Year 2				
Year 3				
Year 4				
EMPLOYER's Name:				
Address:				
Telephone/fax number				

	Information
E-mail:	

2. Activity No. Two

3.

	Information
Description of the key activities in accordance with Section III:	

Form EXP - 4.2 (c)
Specific Experience in Managing ES aspects

[The following table shall be filled in for contracts performed by the Bidder, and each member of a Joint Venture]

Bidder's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member Name: *[insert full name]*

Bid Reference No. (if any) and title: *[insert ICB/NCB number and title]*

Page *[insert page number]* of *[insert total number]* pages

1. Key Requirement no 1 in accordance with 4.2 (c): _____

Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor ☐	Member in JV ☐	Management Contractor ☐	Subcontractor ☐
Total Contract Amount			PKR	
Details of relevant experience				

2. Key Requirement no 2 in accordance with 4.2 (c): _____
3. Key Requirement no 3 in accordance with 4.2 (c): _____
4. [PA define key requirements]

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Eligibility and Qualification Criteria.

No.	Source of financing	Amount (Eq. PKR)
1		
2		
3		

Past Experience / Contracts

Contracts over <i>[insert amount]</i> during the last three years:				
Procuring Agency	Value	Year	Goods/Services Supplied	Country of Destination



Historical Contract Non-Performance, and Pending Litigation and Litigation History

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member Name: *[insert full name]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

☐ Not debarred due to deviation from commitment of Bid Securing Declaration- ☐ Not debarred due to non-performance			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and PKR equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
☐ Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.3 as indicated below.			
Year of dispute	Amount in dispute (currency)	Contract Identification	Total Contract Amount (currency), US\$ PKR Equivalent (exchange rate)

<i>[insert year]</i>	<i>[insert amount]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Supplier"]</i> Status of dispute: <i>[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]</i>	<i>[insert amount]</i>
☐ No consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4. ☐ Consistent history of court/arbitral award decisions in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.4 as indicated below.			
Year of award	Outcome as percentage of Net Worth	Contract Identification	Total Contract Amount (currency), PKR Equivalent (exchange rate)
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Agency: <i>[insert full name]</i> Address of Procuring Agency: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Procuring Agency" or "Supplier"]</i> Court/ arbitral award decision: <i>[Indicate if the award decision was against the Applicant or any member of a joint venture.]y]</i>	<i>[insert amount]</i>

Financial Situation and Performance

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: [insert full name]

Date: [insert day, month, year]

Joint Venture Member Name: [insert full name]

IFP No. and title: [insert IFP number and title]

Page [insert page number] of [insert total number] pages

1. Financial data

Type of Financial information in (currency)	Historic information for previous [insert number] years, [insert in words] (amount in currency, currency, exchange rate*, PKR equivalent)				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements. The financial statements shall:

- (a) reflect the financial situation of the Applicant or in case of JV member, and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- ☐ Attached are copies of financial statements¹ for the *[number]* years required above; and complying with the requirements.

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of Application, the reason for this should be justified.

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Applicant and for each member of a Joint Venture]

Applicant's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member Name: *[insert full name]*

IFP No. and title: *[insert IFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

Annual Turnover Data			
Year	Amount Currency	Exchange rate* (If applicable)	PKR equivalent
<i>[indicate calendar year]</i>	<i>[insert amount and indicate currency]</i>		
		Average Annual Turnover **	

* Refer ITA for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA.