DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF ENERGY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS KPR/45/2025

BIDDING DOCUMENT (Volume 1A – 1B)

Employer:

Chairman
Ceylon petroleum storage terminals limited
Oil installation
Kolonnawa

Engineer:

Engineering Manager Ceylon petroleum storage terminals Limited Oil installation Kolonnawa

July 2025

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SECTION - I

INSTRUCTIONS TO BIDDERS

SECTION - I

INSTRUCTIONS TO BIDDERS

Instructions to Bidders applicable to this contract shall be those given in Section-1 of the Standard Bidding Document, Procurement of Works, Design and Build Contract, ICTAD Publication No. ICTAD/SBD/04, First Edition (Reprinted with amendments), May 2003, published by the Construction Industry Development Authority (CIDA), "Savsiripaya", 123, Wijerama Mawatha, Colombo 07.

This publication will not be issued with the Bidding Document and the Bidder is advised to purchase it from CIDA.

Instructions to Bidders shall be read in conjunction with the Bidding Data provided under Section-V (Volume 1 B) of the Bidding Document.

Instructions to Bidders will not be part of the contract and will cease to have effect once the contract is signed.

SECTION - III

CONDITIONS OF CONTRACT

SECTION - III

CONDITIONS OF CONTRACT

Conditions of Contract applicable to this Contract shall be those given in Section-III of the Standard Bidding Document, Procurement of Works, Design and Build Contracts, ICTAD Publication No. ICTAD/SBD/04, First Edition (Reprinted with amendments), May 2003, published by the Construction Industry Development Authority (CIDA), "Savsiripaya", 123, Wijerama Mawatha, Colombo 07.

This publication will not be issued with the Bidding Document and Bidder is advised to purchase it from CIDA.

Conditions of Contract shall be read in conjunction with Contract Data provided under Section-IV (Volume 1 B) of the Bidding Document, which shall take precedence over the conditions of contract.

Section –V Standard Forms

Notes on Standard Forms:

- Bidders shall submit the completed form of Bid security in compliance with the requirement of the bidding documents.
- Bidders should not complete the Form of Agreement at the time of preparation of bids. The successful bidder will be required to sign the Form of Agreement, after the award of contract. Any corrections or modifications to the accepted bid resulting from arithmetic corrections, acceptable deviations, or quantity variations in accordance with the requirements of the bidding documents should be incorporated into the Agreement.
- The Form of Performance Security, Form of Advance Payment Security and form of Retention Money Guarantee should not be completed by the bidders at the time of preparation of bids. The successful bidder will be required to provide these securities in compliance with the requirements herein or as acceptable to the Employer.

FORM OF BID SECURITY

(Unconditional)

Address of Issu	ing branch or Office]
	eylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa, 'ellampitiya
Date:	
BID SECURITY	No:
Bidder") has su Testing and co	bmitted its Bid dated [date] for the Design , Supply , Installation , ommissioning of CCTV Surveillance System for Muthurajawela Terminal epots (hereinafter called and referred to as "the Bid").
having our reg Guarantor"), ar referred to Employer. The	PEOPLE by these presents that WE
	the Common Seal of the said Guarantor this Day of 20
	ONS of this obligation are: er withdraws its Bid during the period of bid validity specified in the bidding or
	r refuses to accept the correction of errors in its Bid; or
	r, having been notified of the acceptance of its Bid by the Employer, during the d validity, fails or refuses to:
(a) e	execute the Form of Contract Agreement; or
	furnish the Performance Security, in accordance with the Instruction to Bidders
demand, withou Employer will i	to pay the Employer up to the above amount upon receipt of its first written at the Employer having to substantiate its demand, provide that in its demand the note that the amount claimed by it is due to it, owing to the occurrence of one or we conditions, specifying the occurred condition or conditions.
	will remain in force up to and including twenty-eight (28) days after the period and any demand in respect thereof should be received by us no later than the
DATE	SIGNATURE OF THE GUARANTOR SEAL
WITNESS	SEAL
Signature: .	
Name: .	
Address: .	

Notes on Form of Letter of Acceptance

The Letter of Acceptance will be the basis for formation of the Contract as described in Clause 31 of the Instructions to Bidders. This Form of Letter of Acceptance should be filled in and sent to the successful bidder only after evaluation of Bids and after obtaining approval from the relevant authority.

FORM OF LETTER OF ACCEPTANCE

[Letter head paper of the Employer]

[date]
To:
[address of the Contractor]
This is to notify you that your bid dated for design, construction and remedying defects
of the Design, Supply, Installation, Testing and commissioning of CCTV Surveillance
System for Muthurajawela Terminal and 10 Bulk Depots (Contract No:) for the Contract
price of Rupees
accordance with Instructions to Bidders and/or modified by a Memorandum of Understanding, is
hereby accepted.
The adjudicator shall be
Contract documents.
The Start Date shall be: (fill the date as per Clause 8.1 of Conditions of Contract).
The amount of Performance Security is: (fill the date as per Clause 4.2 of Conditions of Contract).
The deadline for submission of Performance Security is (fill the date as per
Clause 4.2 of Conditions of Contract).
Authorized Signature:
Name and title of Signatory:
Name of Agency:

FORM OF CONTRACT AGREEMENT

This Agreement made the
Whereas the Employer desires that the Contractor design and execute Design, Supply, Installation, Testing and commissioning of CCTV Surveillance System for Muthurajawela Terminal and 10 Bulk Depots (Contract No:) (hereinafter called and referred to as "the Works") and the Employer has accepted the Bid by the Contractor for the design, execution and completion of such Works and remedying of any defects therein.
The Employer and the Contractor agree as follows:
1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract hereinafter referred to.
2. In consideration of the payments to be made by the Employer to the Contractor as indicated in this Agreement, the Contractor hereby covenants with the Employer to design, execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the design, execution and completion of the Works and remedying any defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
In Witness whereof the parties hereto have caused this Agreement to be executed the day and year aforementioned in accordance with laws of Sri Lanka.
Authorized signature of Contractor SEAL Authorized signature of Employer SEAL
In the presence of : Witnesses :
1. Name and NIC/Passport No. Signature
2. Name and NIC/Passport No. Signature

FORM OF PERFORMANCE GUARANTEE

(Unconditional)

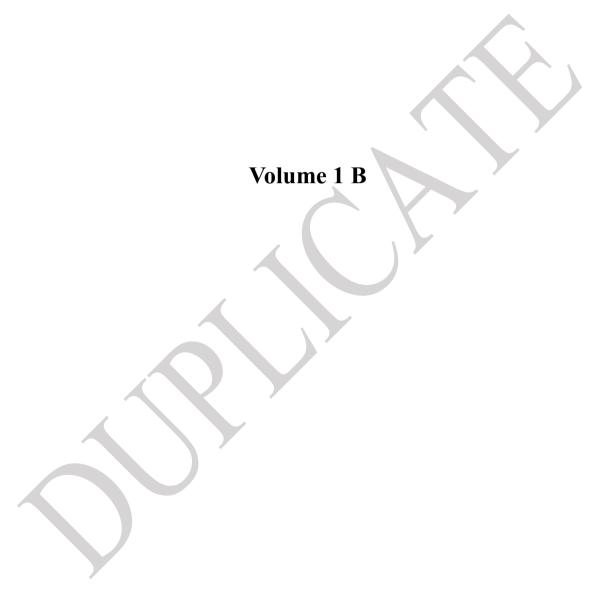
NUMBER :SUM GUARANTEED :	DATE :
Beneficiary: Ceylon Petroleum Storage Termin Wellampitiya	als Limited, Oil Installation, Kolonnawa,
and referred to as "the Contractor") has under dated to execute Design , Supp	e and address of Contractor] (hereinafter called taken, in pursuance of contract No
shall furnish the Employer with a Guarantee is	inployer in the said Contract that the Contractor ssued by a recognized organization for the sum its obligations in accordance with the Contract.
And Whereas we have agreed to give the Cont	ractor such a Guarantee;
the Contractor, up to a total of Sri guarantee]	Lankan Rupees
We hereby waive the necessity of the Employe before presenting us with the demand.	r's demanding the said debt from the contractor
the Works to be performed thereunder or of the G	or modification of the terms of the Contract or of Contract documents which may be made between way release us from any liability under this uch change, addition or modification.
This guarantee shall be valid until the date of is	sue of the Performance Certificate.
Signature and the Seal of the Guarantor: Name of the Organization: Address: Date:	
Witness:	

FORM OF GUARANTEE FOR MOBILISATION ADVANCE PAYMENT

NUMBER : SUM GUARANTEED :	DATE:
SUM GUARANTEED	
Beneficiary: Ceylon Petroleum Storage Terminals Wellampitiya	Limited, Oil Installation, Kolonnawa,
· ·	
Design, Supply, Installation, Testing and comm Muthurajawela Terminal and 10 Bulk Depots.	
In accordance with the provisions of the Condit Payment) of the above-mentioned contract	as "the Contractor") shall deposit with the loyer to guarantee his proper and faithful mount of
We, the	to guarantee as primary obligator and not as first demand without whatsoever right of cavil yer's needing to prove or to show grounds or specified therein and without his first claim to es
We further agree that no change or addition to or the Works to be performed thereunder or of the Cothe Employer and the Contractor shall in any sugarantee, and we hereby waive notice or any suc	ontract document which may be made between way release us from any liability under this
No drawings may be made by the Employer under in writing from the Employer that an advance pay to the Contractor pursuant to the Contract.	
This guarantee shall remain valid and in full effect by the Contractor under the Contract until the E amount from the Contractor.	* •
Signature and the Seal of the Guarantor:	

FROM OF RETENTION MONEY GUARANTEE

NUMBER : DA SUM GUARANTEED :	ATE :
Beneficiary: Ceylon Petroleum Storage Terminals Limited, Oil Wellampitiya	Installation, Kolonnawa,
Whereas, it has been stipulated by the Employer in clause 14.7 release to the contractor the full sum mentioned under the cont on the contractor furnishing an unconditional guarantee accept value of the retention money, valid up to 28 days beyond the e Period.	ract in pursuance of clause 14.7, able to the Employer to the full
We	Iname and address of
Guarantor] as instructed by the Contractor, unconditionally and the Employer upon the Employer's first written demand and we sum of sums within the said amount as aforesaid without the Eshow grounds or reasons for the Employer's demand for the sum amount of Rupees	ithout cavil or objection, any imployer's needing to prove or to imployer's needing to prove or to imployer therein and the said ee]
This guarantee shall be valid up to	1
Signature and the Seal of the Guarantor: Name of the Organization: Address: Date: Witness:	



CEYLON PETROLEUM STORAGE TERMINALS LIMITED

Invitation for Bids (IFB)

DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS

Contract No: KPR/45/2025

- 1. The Chairman, Departmental Procurement Committee (Major) (DPC) on behalf of the Ceylon Petroleum Storage Terminals Limited (CPSTL), Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka invites sealed bids from eligible and qualified bidders for the "Design, Supply, installation, Testing and Commissioning of CCTV Surveillance System for Muthurajawela Terminal and 10 Bulk Depots. Bidding will be conducted through National Competitive Bidding Procedure, Single Stage, Two Envelope.
- 2.To be eligible for contract award, the successful bidder (individual, Firm or joint venture) shall not have been blacklisted and shall meet the following requirements.
 - i. Registration for Bidders

ICTAD (CIDA) registration as follows;

Specialty	Grade
Extra Low Voltage Installations (ELV)	EM 1

- ii. Average annual volume of construction work performed in last five years shall be at least LKR 149 million
- iii. The minimum amount of liquid assets and/or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, until Project Completion Date, shall be not less than **LKR 75 Million.**
- **iv.** Experience as a contractor in the design & construction of a nature and complexity similar to the Works related experience in carrying out design, supplying, installation, testing commissioning and maintenance of CCTV camera systems with associated network, electrical and civil scope of work with at least 03 similar projects within last 5 years executed as ELV projects. At least one project out of these three shall not be less than LKR 70 million (The minimum value of CCTV part shall not be less than LKR 50 million and maintenance in a similar large-scale Sri Lankan organization), and 02 projects shall not be less than LKR 50 million (The minimum value of CCTV part shall not be less than LKR 25 million).
- **v.** Bidder shall have experience of maintaining a 24 hrs. x 07 days call center within last 05 years period. Bidder shall provide documentary proof.
- vi. Audited financial report for the financial years 2020,2021,2022, 2023 and 2024 to be submitted as follows:
 - a. The companies reporting their annual accounts for year ending on 31st of December shall provide the financial reports for the financial years ending on 31.12.2024, 31.12.2023, 31.12.2022,31.12.2021,31.12.2020.
 - b. The companies reporting their annual accounts for year ending on 31_{st} of March shall provide the financial reports for the financial years ending on 31.03.2025,31.03.2024, 31.03.2023 and 31.03.2022,31.03.2021.
- vii. Schedule of Key Personnel
 - -Project Engineer (B.Sc.(Electronic/Electrical)) 01 No (5 years of experience)
 - -Network / Security Engineer (B.Sc. or higher) 01 No (03 years of experience)
 - -Technical Officer (N.D.T. or higher) -03 Nos (10 years of experience) (Bidder shall have at least 01 (one) proposed CCTV vendor certified engineers in

permanent carder. Please provide the certification copies.)

- 3. Interested bidders may obtain further information from the Manager Procurement of the Ceylon Petroleum Storage Terminals Limited, (Tele Phone+94 112572156, 2572155 and Tele Fax: +94 11 2074299 and Email: procure@cpstl.lk) and inspect the bidding documents free of charge during any working days from 0900 hrs to 1500 hrs. at the address given below. However, the bidders can inspect the bidding document (excluding drawings) from CPSTL website; www.cpstl.lk.
- 4. A complete set of Bidding Documents in English language may be purchased by interested bidders may obtain the Bidding Documents through any of the following methods:

1.In-Person Collection

By submitting a written application to The Manager (Procurement), Procurement Function Ceylon Petroleum Storage Terminals Limited (CPSTL),1st Floor, New Administration Building Oil Installation, Kolonnawa, between **01.08.2025** and **25.08.2025**, on working days from 0900 hrs to 1400 hrs, along with your request, you must provide proof of payment of a non-refundable fee of LKR **20,000.00**. Payment can be made:

In cash at the Cash Counter, CPSTL, Kolonnawa, or

By bank transfer to the CPSTL account (details given below), and submit a copy of the bank slip or transfer confirmation.

2.By Email Request

Making a cash payment of the non-refundable fee of LKR **20,000.00** to the CPSTL bank account (bank details provided below), and Sending proof of payment (a copy of the bank slip or transfer confirmation), along with a written request on company letterhead, via email to procure@cpstl.lk, between **01.08.2025** and **25.08.2025**, on working days from 0900 hrs to 1400 hrs. Upon receipt of the non-refundable fee in the CPSTL account, the full set of bidding documents will be issued via email by the Procurement Function.

[Your reference details (Applicant Name, Company Name, Tender Number [KPR/45/2025]) should be stated in your receipt.]

Account Details

Account Holder : Ceylon Petroleum Storage Terminals Limited, Oil

Installation, Kolonnawa,, Wellampitiya,

Account No : 004-1-001-9-0208672

Bank & Branch : People's Bank Corporate Branch

No. 91, All Ceylon Hindu Congress (ACHC) Building,

Sir Chittampalam A. Gardiner Mawatha.

Colombo 02

Swift code : PSBKLKLX

Bank code : 7135 Branch code : 004

- 5. Bidding Document (excluding drawings) available on the web is only for viewing purposes, and Bids shall be submitted using a Hard Copy of the Bidding Document purchased from CPSTL
- 6. Bids shall be submitted on the bidding document obtainable from procurement function and duly filled bidding documents may be sent by post/courier under registered cover or sealed cover to reach the Chairman, Department Procurement Committee (Major), C/O Manager

(Procurement), Ceylon Petroleum Storage Terminals Limited, Procurement Function,1st floor, New Administration Building, Oil Installation, Kolonnawa Wellampitiya or could be deposited in the tender box kept at the main entrance of CPSTL, on or before 1400 hrs on **26.08.2025.**

- 7. Bid will be closed at 1400 hrs of **26.08.2025** and will be opened immediately thereafter at the office of Manager Procurement, in the presence of the authorized only one representative of the bidder who chose to attend
- 8. Bids shall be submitted on the bidding document obtainable from procurement function and duly filled bidding documents may be sent by post/courier under registered cover or sealed cover to reach the Chairman, Department Procurement Committee (Major), C/O Manager (Procurement), Ceylon Petroleum Storage Terminals Limited, Procurement Function,1st floor, New Administration Building, Oil Installation, Kolonnawa Wellampitiya or could be deposited in the tender box kept at the main entrance of CPSTL, on or before 1400 hrs on 26.08.2025
- 9. Bids shall be valid up to **25.11.2025**
- 10. All bids must be accompanied by a bid security of LKR 1,490,000.00 (Sri Lanka Rupees One Million and Four Hundred Ninety Thousand Only). Bid Security shall be valid up to **23.12.2025.**
- 11. The construction period is **180 Calendar Days**.
- 12. A pre-bid meeting will be held at **1000 hrs** on **12.08.2025** at the office of Muthurajawela Petroleum Terminal, Kerawalapitiya. Site visit shall be arranged after the pre-bid meeting. The bidders are advised to limit the number of persons, for the pre-bid meeting and site visit, due to the security reasons Entry passes will be arranged by CPSTL.
 - In case, the bidders are unable to participate the pre bid meeting, they can participate via teleconference method. Interested parties who wish to participate in the Pre bid meeting shall send their request to email procure@cpstl.lk at or before 1400 hrs. on 11.08. 2025.
 - 13. Any of the following party who wishes to submit a bid, shall register himself at the Department of Registrar of Companies www.drc.gov.lk (e-ROC) as per the Public Contracts Act, No. 03 of 1987 for every public contract value exceeding Sri Lankan Rupees Five million (LKR 5,000,000).
 - i. An agent, sub-agent, representative or nominee must be registered prior to the closing of the Bid/Tender.
 - ii. If the tender applicant and the tenderer is the same party he must be registered prior to

However, this registration will be verified by CPSTL at the preliminary evaluation of Bids. In case of failure to meet this legal requirement, the Bid shall be rejected.

Contact details of the Registrar: Department of Registrar of Companies, "Samagam Medura", No. 400, D R Wijewardena Mawatha, Colombo 10 / Tel.: +94-11-2689208 / +94- 11-2689209 / Email: registrar@drc.gov.lk (Contact details may vary from actuals & CPSTL does not take any responsibility in this regard)

The address(es) referred to above is (are):

The Chairman,
Department of Procurement Committee (Major) (DPC),
C/O Manager Procurement,
Ceylon Petroleum Storage Terminals Limited,
Procurement Function, New Building,
Oil Installation, Kolonnawa, Wellampitiya,
Sri Lanka.

Postal Code: 10600

Telephone : +94 11 2572156, +94 11 2572155

Facsimile: +94112074299 E-mail: procure@cpstl.lk



Bidding Data

BIDDING DATA

Item	Sub- Clause	Entry		
Employer's	1.1 &	The Employer is		
Name and Address	9.1	Name:	The Chairman	
		Address:	Ceylon Petroleum Storage Oil Installation, Kolonnawa, Wellampitiya.	Terminals Limited
Scope of Works	1.1	The work consists of design, supply, installation testing, commissioning and maintenance of a CCTV system including cameras, access switches, core switches, servers, video storage, monitoring stations mounting racks, camera poles, UPS units, Fiber optic and UTP cable, Earthing and Surge protection system, power distribution boards, and related electrical and civil works, and all other necessary details as directed by the engineer. Location: Muthurajawela Terminal and 10 Depots		
Time for Completion	1.2	The Time for	The Time for Completion for the whole of Works shall be 180 days .	
Delay damages for	1.2	The delay damages for the whole of the Works shall be 0.05% of the initial Contract Price per Day.		
		n amount of delay damages for of the Initial Contract Price.	the whole of the Works	
Defects Notification Period	1.2	Defects Notification Period is 03 Years from the date of completion of commissioning.		
Source of Funds	2.1	The source of f	unds is Ceylon Petroleum Stora	age Terminals Limited.
CIDA	3.1	Specialty		Grade
(ICTAD) registration required			oltage Installations (ELV)	EM 1
Qualification Information	3.1, 3.2, 4.1	The following information shall be provided in Section VIII: • CIDA registration (if any) Registration number		
	7.1			
			Grade	
		Specialty		
		VAT registration number		
		Attach construction program		
	• Attach legal status (Sole proprietor, Partnership, Company etc.)			tnership, Company etc.)
		 Attach a 	uthentication for signatory	

last five years.

• Total monetary value of related work performed for each of the

• Experience in works of a similar nature and size for each of the

last five years, • Construction equipment • Staffing • Attach Work plan and methods; 4.3(a) Average annual volume of construction work performed in last five Average annual years shall be at least Sri Lanka Rupees One Million and Four volume of **Hundred Ninety Thousand Only.** construction work performed in last five years Experience 4.3(b)Should have experience as a contractor in the design, supply, as prime installation, testing and commissioning of CCTV Surveillance system including cameras, access switches, core switches, servers, contractor video storage, monitoring stations mounting racks, camera poles, UPS units, Fiber optic and UTP cable, Earthing and Surge protection system, power distribution boards, and related electrical and civil works etc. **Qualification** 4.3(e), Design team shall consist at least one in each of following and 4.3(f)engineering disciplines having participated in similar capacity experience project in full time for design within last two years. of proposed ☐ Design Engineer – B.Sc. (Electronic/Electrical) Engineer with 5 design team years of experience members □ Network/ Security Engineer – B.Sc. Or higher with 3 years of experience ☐ Technical Officers – NDT (Electrical/Electronic) or higher with 10 years experience - NDT (Civil) or higher with 10 years of experience ☐ (Bidder shall have at least 01 (one) proposed CCTV vendor certified engineers in permanent carder. Please provide the certification copies) **Liquid assets** 4.3(g) The minimum amount of liquid assets and/or credit facilities, net of and/or credit other contractual commitments and exclusive of any advance payments, which may be made under the Contract, until Project facilities Completion Date, shall be not less than Sri Lanka Rupees Seventy required Five Million (LKR 75 Million) Bid price 13.3 VAT components shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However, VAT component shall be shown separately at the end of the price schedule summary. **Contract is** 13.4 The Contract is not subject to price adjustment in accordance with subjected to Clause 13.7 of the Conditions of Contract. price adjustment for fluctuation of prices Currency of 14.1 The Bid shall be quoted in Sri Lankan Rupees (LKR) bid

Engineering Function		Volume 1B – Section II- Bidding Data		
Bid Validity period	15.1	The l	Bids shall be valid up to 25.11.2025	
Amount of Bid security	16.1		Amount of Bid Security LKR LKR 1,490,000.00 (Sri Lanka es One Million and Four Hundred Ninety Thousand Only).	
Validity of Bid Security	16.2	The l	Bid Security shall be valid up to 23.12.2025	
Pre-Bid	17.1	Pre-E	Bid meeting will be held	
meeting			At the Muthurajawela Petroleum Terminal, Kerawalapitiya, Wattala, Site visit shall be arranged after the pre-bid meeting.	
		Date	12.08.2025 Time 1000 hrs.	
		can wisl	participate via teleconference method. Interested parties who a to participate in the Pre bid meeting shall send their request to il procure@cpstl.lk at or before 1400 hrs. on 11.08. 2025.	
Sealing and marking of Bids	19.2		Collowing information also shall be included in the inner covers velope marked as "Envelope 1-Preliminary Information":	
		(i)	Schedule, "Annual turn-over Information";	
		(ii)	Schedule, "Adequacy of Working capital;",	
		(iii)	Schedule, "Experiences in last five years.	
		(iv)	Schedule, "Current Contract Commitments"	
	19.3		following information also shall be included in the inner cover velope marked as "Envelope 2-Design/Technical Proposal":	
		(i)	Schedule, "Team composition and Task assignment",	
		(ii)	Curriculum Vitae of Key staff;	
		(iii)	Schedule, "Time Schedule for key staff";	
		(iv)	Work program (Design related activities);	
		(v)	Work program (Construction related activities);	
	19.4	The i	following information also shall be included in the inner cover	

- of envelope marked as "Envelope 3-Financial Proposal":
 - (i) Daywork rates schedule
 - Schedule, "Overhead and profit percentage for Provisional (ii) Sum activities";
- The Employer's address for the purpose of Bid submission is 19.5(a)

The Chairman, Department of Procurement Committee— Major (DPC), C/O Manager Procurement, Ceylon Petroleum Storage Terminals Limited, **Procurement Function, New Building,** Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka.

Postal Code: 10600

19.5(b) Contract name : Design, Supply, Installation, Testing and commissioning of CCTV Surveillance System for Muthurajawela Terminal and 10 Bulk Depots

Contact No. KPR/45/2025

Deadline for 20.1 **submission**

of Bids

Address for submission of Bids

The Chairman, Department of Procurement Committee—major (DPC), C/O Manager Procurement,
Ceylon Petroleum Storage Terminals Limited,
Procurement Function, New Building,
Oil Installation, Kolonnawa, Wellampitiya,
Sri Lanka.

Postal Code: 10600

The deadline for submission of Bids shall be

Date :26.08.2025 Time : 1400 hrs.

The Time, Date and Location for bid opening is:

Date: 26.08.2025 Time: 1400 hrs.

Location:

Office of Manager Procurement, Ceylon Petroleum Storage Terminals Limited, Procurement Function, New Building, Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka.

Evaluation and comparison of Bids

27.0

32.1

34.1

For evaluation and comparison of Bids **Option A** is selected.

The Point System for the 6 criteria stipulated in Sub-Clause 27.4 of ITB will be used for evaluation of Technical Proposals. The Bids score more than Minimum Required Points will only be considered for the evaluation of the Price Proposals.

Correction of errors

(28.1)c Sub-Clause 28.1(c) not modified.

Correction of errors

(28.1)d Sub-Clause 28.1(d) is applicable.

Amount of Performance Security

The standard form of Performance Security acceptable to the Employer shall be a Bank Guarantee from a

- a commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka,
- a bank based in another country but the guarantee "confirmed" by a commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka

The amount of Performance Security is 5% of the Initial Contract Price.

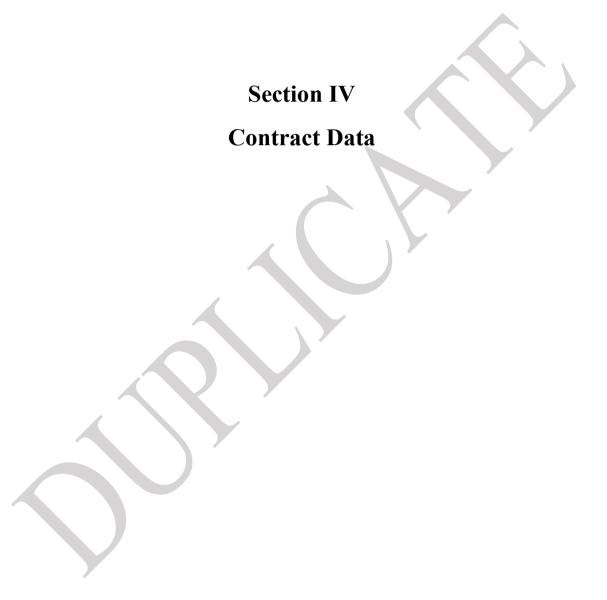
Percentage of retention

The retention from each payment shall be 10%.

The limit of retention shall be 5% of the Initial Contract Price.

Minimum amount of Interim Payment Certificates	34.2	LKR 13,000,000.00 (Sri Lanka Rupees Thirteen Million)
Adjudicator proposed by Employer	(35.1)	The Adjudicator proposed by Employer is Construction Industry Development Authority (CIDA).

Fees and types of reimbursable expenses to be paid to the Adjudicator shall be on a case-to-case basis and shall be shared equally by the Contractor and the Employer.



CONTRACT DATA

Sub- Clause	Entry
1.1.2.2	The Employer is
	Name : Ceylon Petroleum Storage Terminals
	Limited
	Address: Oil Installation, Kolonnawa, Wellampitiya, Sri Lanka.
1.1.2.4	Name: Engineering Manager
	Address: Ceylon Petroleum Storage Terminals Limited, Engineering Function, Oil Installation, Kolonnawa, Wellampitiya,Sri Lanka.
3.1	The Engineer shall obtain the specific approval of the Employer before taking action under the following Sub-Clauses of these Conditions. (a) consenting to the subletting of any part of the Works under Sub-Clause 4.4 (b), (b)approving an extension of the Time for Completion, and/or any additional payment under Sub-Clause 19.1 (Contractor's Claim) issuing variation under Sub-Clause 13.1 (Right to vary Employer's Requirement), except in an emergency situation, as reasonably determined by the Engineer. (c)approving additional payment under Sub-Clause 13.3
	Clause 1.1.2.2

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 responsibilities 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

igineering Function		volume 1B – Section IV - Contract Data
Key Personnel	4.1	Schedule of Key Personnel:
		Names with qualifications and experience to be written:
		(a) Design
		(b) Contract Administration
		(a) Accounting
		(c) Accounting
Performance Security	4.2	The Performance Security shall be 5 % of the Initial Contract Price. The Standard Form of Performance Security acceptable to the Employer shall be a Bank Guarantee from a commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka, a bank based in another country but the guarantee "confirmed" by a commercial bank operating in Sri Lanka approved by Central Bank of Sri Lanka.
Commencement of Work	8.1	Start Date: The Start Date shall be 14 days from the issue of the Letter of Acceptance
Time for Completion	8.2	The Time for Completion for the whole of Works shall be 180 Calendar days.
Delay Damages	8.7	The Delay Damages for the whole of the Works shall be 0.05% of the Initial
		Contract Price per Day.
		The maximum amount of Delay Damages for the whole of the Works shall be 10% of the Initial Contract Price.
Defects Notification Period	11.1	Defects Notification Period is 03 Years from the date of completion of commissioning. Contractor shall maintain the system for 03 years period from the date of completion of commissioning, complying with "Section – VI- Employer's requirement of this Bidding Document
Adjustments for Changes in Cost	13.7	Contract is not subjected to price adjustment for fluctuation of prices.
Contract Price	14.1	The Sub-Clause 14.1 shall be read incorporation with the following: The Works shall be paid according to work done as per the price proposal.
Advance Payment	14.2	20 % of the Initial Contract Price excluding Provisional Sums & Contingencies.
		The advance payment securities issued by the following agencies are acceptable; a commercial bank operating in Sri Lanka approved by

Central Bank of Sri Lanka.

a bank based in another country but the guarantee "confirmed" by a bank in Sri Lanka approved by Central Bank of Sri Lanka,

Number and timing of installment for Advance Payment Two equal instalments.

Stage I - the first ten percent (10%) of advance payment will be paid within 14 days from receipt of both Performance and Advance Payment Guarantee as required under clause 4.2 and 14.2 respectively.

Stage II - balance ten percent (10%) will be paid after successfully mobilization at the site after receipt of mobilization Advance Payment Guarantee.

Retention Money 14.3(c)

The retention from each payment shall be 10% of the Interim Payment certificate.

The limit of retention shall be 5% of the Initial Contract Price.

Issue of Interim Payment Certificates

Minimum amount of Interim Payment Certificates shall be LKR 13,000,000.00 (Sri Lanka Rupees Thirteen Million)

Employer's Property

18.2 (b)

14.4

Insurance cover to the amount of LKR 50 Million for the entire period of construction work. The contractor shall take special measures to safeguard the adjacent storage tanks and allied facilities at the site.

Professional Indemnity Insurance

18.4

This Amount of professional indemnity insurance cover shall be for LKR 5,000,000.00 (Sri Lanka Rupees Five Million).

Failure to Agree 19.2 & Dispute 19.4 Adjudicator

The appointing entity for appointing the Adjudicator is the Construction Industry Development Authority (CIDA).

Section VI

Employer's Requirement

DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS

1. Introduction

1.1.Background

Ceylon Petroleum Storage Terminals Limited (CPSTL) intends to enhance security and operational monitoring through the implementation of a state-of-the-art IP-based CCTV Surveillance System across the Muthurajawela Terminal and ten (10) regional bulk depots.

1.2.Objective

The key objective is to establish a high-resolution, integrated surveillance infrastructure to ensure 24/7 monitoring of all critical operational areas, perimeters, and access points. The system shall provide capabilities for future scalability, integration with other safety/security systems, and remote centralized monitoring.

2. Site Coverage and Camera Quantities

The proposed number of cameras for each location is outlined in Table 01. The contractor shall design the system without exceeding the specified camera count for each location. (Refer to the attached drawings for each location for more details)

Table 01: Proposed Quantities of Cameras for Muthurajawela Terminal and Depots

as

3. Scope of Work

The Contractor shall undertake a comprehensive turnkey implementation of the CCTV surveillance system, which includes but is not limited to the following:

- a. Detailed system design, including layout finalization, component selection, and infrastructure planning.
- b. Supply and installation of all required hardware, software, cabling, mounting poles, and other associated infrastructure.
- c. Testing, commissioning, and user training for relevant personnel.
- d. Comprehensive documentation, including design reports, operation manuals, warranty certificates, and as-built drawings.
- e. Post-implementation support, including warranty service, defect liability period support, and system updates.

3.1 Design Responsibilities

- 3.1.1 The Contractor shall be responsible for the complete design, supply, installation, testing, and commissioning of the CCTV surveillance system at the Muthurajawela Terminal and 10 bulk depots, adhering to the minimum technical specifications provided.
- 3.1.2 The contractor shall conduct site surveys and risk/vulnerability assessments.
- 3.1.3 Determine optimal camera placements to ensure comprehensive coverage with minimal blind spots.
- 3.1.4 Design a scalable network infrastructure, including camera layouts, cable routes, and system schematics.
- 3.1.5 The contractor shall design the cable layout utilizing the existing cable trenches (Muthurajawela Terminal), as indicated in the attached drawings, wherever feasible. New trenches shall be used where the existing ones are not accessible. The use of overhead cabling shall not be permitted.
- 3.1.6 Submit all design documents including drawings, specifications, and design reports for Engineer's approval.
- 3.1.7 The supplier shall have a minimum of one vendor-certified engineer on staff; valid certification documents must be submitted

- 3.1.8 The system shall include, but not be limited to:
 - a. IP cameras (fixed, PTZ, ANPR) with High-resolution infrared and low-light capabilities.
 - b. Indoor, outdoor, and specialized ANPR cameras.
 - c. Outdoor fiber-optic backbone and CAT6 structured cabling.
 - d. Dedicated Local Area Network (LAN) for CCTV operations.
 - e. Network Video Recorders (NVR), Video Management Servers (VMS), and related software with analytical modules.
 - f. Video wall displays and monitoring workstations.
 - g. Electrical power distribution, UPS, and surge protection systems.
 - h. Civil works, including trenching, pole mounting, backfilling, and conduiting.
 - i. AI-enabled analytics such as motion detection, intrusion alerts, flame/smoke detection, perimeter surveillance, real-time threat detection and event classification.
 - j. Integration with existing and/or future systems (e.g., HRM, access control)
 - k. Inter-site connectivity for centralized surveillance and monitoring from Kolonnawa Installation Command Center.
 - 1. Full camera coverage for areas as per the approved layout drawings.

3.2 Supply and Installation

- 3.2.1 Supply and install all materials and equipment including:
 - Cameras, NVRs/VMS servers, monitors, PoE switches, UPS systems, furniture, mounting structures
 - CAT6 and fiber-optic cables, IP66 or above -rated outdoor enclosures, and corrosion-resistant GI conduits
- 3.2.2 All equipment must be brand new, original, and compliant with international standards such as ONVIF, CE, FCC, and RoHS.
- 3.2.3 Outdoor units shall meet IP66 or above and IK10 protection standards.
- 3.2.4 All cables must be laid within the existing or new cable trenches. The contractor is responsible for manually excavating the existing cable trenches, clearing cable sleeves across roads, and ensuring clear cable paths inside buildings.

- 3.2.5 The contractor is responsible for safely storing sand, bricks, and tiles for backfilling after the installation of new cables. Once the cables are installed, the cable trenches must be properly backfilled and closed.
- 3.2.6 If the existing sleeves across the roads are insufficient, the contractor shall install new sleeves and restore the roads to their previous condition. Prior approval must be obtained from the Engineer if the cable route deviates from the existing route in any case.
- 3.2.7 Insulation and continuity testing of the cables shall be conducted in the presence of the Engineer or his representative, and the testing report shall be submitted to the Engineer.
- 3.2.8 The Contractor shall maintain good housekeeping in the site and vicinity of the site during construction and attend to cleaning of the site after completion of the work.
- 3.2.9 CPSTL shall not be responsible for theft damage or loss of any of the materials and equipment during the installation. Equipment shall be covered and protected against dirt, water, and moisture, sand and chemical or mechanical injury. Upon completion of all works, the materials and equipment shall be thoroughly cleaned, adjusted and tested to demonstrate its proper operation to the Engineer. The contractor shall properly and adequately protect all materials and equipment before, during, and after installation. Material or Equipment damaged due to inadequate attention of the Contractor shall not be accepted and Engineer reserves the right to request replacements for such equipment at the handing over. It is the responsibility of the Contractor to clean the installation at close of work every day and to hand over a clean and neat installation at completion.

3.3 Technical Requirements

3.3.1 Camera System

- a. High-resolution IP cameras with night vision and IR capability for low-light environments.
- b. All cameras must ensure full coverage with IR capability for low-light functionality.
- c. All proposed cameras shall be of the same brand to ensure compatibility and uniform performance.
- d. ANPR cameras shall be installed at all entry and exit points. These cameras must record vehicle number plates, time of arrival, and departure. The system shall store these records in a searchable database and allow integration with third-party software such as HRM, Time Attendance Systems, and similar platforms.

- e. Cameras shall include an IR filter that automatically switches between color and monochrome modes based on illumination levels or alarm inputs.
- f. The system shall support automatic detection and alerting of defective components.
- g. All outdoor cameras shall be IP66 or above-rated and IK10 vandal-proof. Associated hardware (e.g., power supply units, media converters, passive patches) shall be included.
- h. Contractor shall propose camera focal lengths based on required Fields of View (FoV)

Video Management Software (VMS) 3.3.2

a. Features must include:

- Multi-user access with customizable roles and privileges
- Electronic maps with camera icons for quick access
- Alarm logging and advanced search functions
- PTZ control, live view, playback, export, and analytics integration
- Scheduled, manual, and event-based recording modes
- System configuration report generation
- Support for schedule-based analytics
- GUI-based control with multi-monitor display
- Snapshot and alarm video creation
- Client-server architecture with secure user authentication

3.3.3 Network Video Recorder (NVR)

- a. Minimum of 45 days continuous recording at 25 fps with 4MP resolution
- b. RAID 5 configuration with a dedicated RAID controller (hardware-based)
- c. Failover servers for NVR/storage functions
- d. Redundant load balancing across backup NVRs to maintain system integrity
- e. Sufficient processing power and memory to manage all recording and streaming functions
- f. All required accessories must be provided: patch panels, PDUs, KVM switches, network enclosures with lockable doors, cooling fans-vents, server Enclosed rack, junction boxes etc.
- g. Support for event-based, motion-based, schedule-based, and continuous recording modes. Each mode must support customizable frame rates and resolutions.
- h. The system must allow for camera-wise configurable recording with independent bit rate, frame rate, and resolution

3.3.4 Structured Cabling and Network Infrastructure

- a. The network must be commissioned to meet required bandwidth, data transfer rates, and video frame rates
- b. Use of Single Mode armored fiber optic cables
- c. CAT6 cables (shielded/unshielded as applicable) for horizontal cabling
- d. Outdoor GI conduits with threaded connections and anti-corrosion treatment
- e. Access switches installed in IP66 or above-rated enclosures with internal fiber/UTP patch panels
- f. All cables and terminations shall be fully RoHS compliant and 100% tested per ANSI/TIA/EIA-568-C standards
- g. A 25-year system warranty must be provided for the entire backbone and horizontal cabling system (contractor to manage testing and documentation for warranty approval)
- h. LAN to include PoE switches, virtualized core switches, and secure tunneling for external access isolation.
- i. The network shall be designed to accommodate future expansions

3.3.5 Workstations and Monitoring

- a. The Central Monitoring Workstation Cluster shall support:
 - o Simultaneous live viewing of all cameras
 - Display output on high-definition LED screens, arranged in a structured video wall layout
 - Real-time alerts, map-based camera navigation, and analytics dashboard integration

b. Monitoring Capabilities

- The system shall support multi-monitor configurations for enhanced situational awareness.
- Each workstation shall be equipped with an intuitive Graphical User Interface (GUI) for camera selection, playback, and alert review.
- PTZ joystick controllers shall be provided at key workstations to facilitate manual pan-tilt-zoom camera control.
- The system shall support secure remote access for authorized personnel through web browsers, mobile applications, with user authentication and role-based access control.

c. Client Workstations

- o Muthurajawela Terminal: A total of 04 client workstations shall be provided and installed at strategically identified locations within the terminal premises.
- All client workstations shall be networked to the central Video Management System (VMS) and configured to access designated camera groups, as per userlevel restrictions.

d. Cloud based viewing facility

- A secure, cloud-based viewing platform shall be provided to enable remote monitoring
- e. Renovation of Main Security Room (Muthurajawela Terminal)
 The contractor shall undertake necessary civil, electrical, and interior improvements to upgrade the existing Monitoring Workstation Room located at the Main Security Room, which shall include but not be limited to:
 - Upgrading the air-conditioning system to maintain an optimal operating environment for both personnel and equipment
 - o Provision of electrical systems, including main power connections, UPS systems, standby power, and required Distribution Boards (DBs)
 - Supply and installation of ergonomic furniture, including workstations, operator chairs, etc.
 - o Lighting improvements to achieve illumination levels in compliance with relevant workplace standards (minimum 500 lux at desktop level)
 - o Installation of CCTV display screens, supporting brackets, cable management trays, and all required accessories for secure and efficient mounting

3.3.6 Installation Standards and Safety

- a. All works must strictly adhere to CPSTL safety protocols and relevant national/international safety regulations.
- b. The contractor shall assume full responsibility for the safety of personnel, equipment, and infrastructure during installation and commissioning.
- c. All outdoor surface conduit works must use GI with threaded joints and anti-corrosion coatings.
- d. Installation must include UPS backup systems and surge protection for all critical components.
- e. Products must be free of known cybersecurity threats or malicious firmware history.
- f. The complete system must comply with the following standards:
 - o EIA/TIA 568A/B: Commercial Building Telecommunications Wiring

- EIA/TIA 569, 570A, 606, 607: Pathways, Residential Wiring, Administration, and Grounding
- EN IEC 60079-0: Explosive Atmospheres
- o BS EN 7671: 18th Edition IET Wiring Regulations
- o NFPA 70 (NEC): National Electrical Code
- o RoHS: Restriction of Hazardous Substances
- ONVIF: Interoperability of IP-based physical security products

3.3.7 Testing, Commissioning, and Acceptance

- a. The Contractor shall conduct comprehensive pre-commissioning tests and submit detailed results to CPSTL prior to the final Acceptance Test.
- b. The Acceptance Test shall be scheduled with a minimum of 14 days' notice to CPSTL.
- c. Any deficiencies identified during testing must be promptly rectified by the Contractor at no additional cost.
- d. The system shall undergo individual and integrated testing to verify:
 - Camera coverage and image quality
 - Recording performance and retrieval
 - Failover and redundancy functionality (RAID/ redundance NVR)
- e. The Contractor shall submit comprehensive test reports and obtain written acceptance from CPSTL for each site.
- f. The final handover must include:
 - All test results and certifications
 - System manuals and operational documentation
 - Licenses and credentials
 - Configuration backups
- g. All system components must be properly labeled, and the entire installation shall be verified for operational readiness.

3.3.8 Documentation and Handover

- a. The Contractor shall provide the following documentation in both printed and electronic formats:
 - o Three (03) sets of A1-size as-built drawings and soft copies in PDF format

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- o All software, credentials, and configuration backups
- o Operation & Maintenance manuals and technical catalogues
- o Full transfer of ownership rights and licenses for all system software
- o Final documentation must include:
 - User manuals
 - As-built drawings
 - IP plans and logical diagrams
 - Configuration and system backups
 - Maintenance and troubleshooting guides

3.3.9 Training and Technology Transfer

- a. Training Objectives
 - o To ensure CPSTL staff are fully trained in operation, maintenance, troubleshooting, and administration of the CCTV surveillance system.
 - To provide site-specific, role-based training tailored to operators, maintenance personnel, and ICT support staff.
- b. Separate modules shall be provided for:
 - System Operators
 - Maintenance Technicians
 - o ICT/Network Administrators
- c. Training shall be delivered in Sinhala and/or English, using OEM-certified instructors.
- d. Training formats shall include:
 - Visual presentations
 - Practical demonstrations
 - Instructor-led sessions
 - o Printed reference materials and guides
- e. Training Location and Timing
 - Training shall be conducted on-site at Muthurajawela Terminal and depots, or off-site at an approved location.

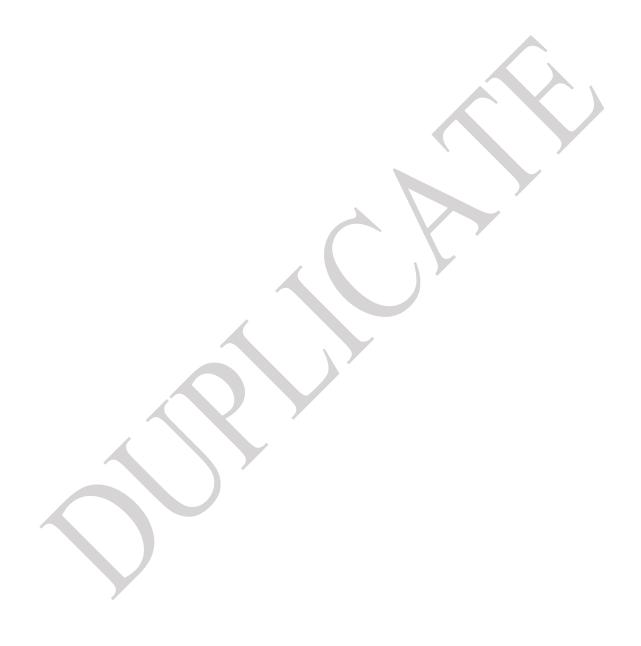
 All training sessions must be completed prior to the Taking Over Certificate being issued.

3.3.10 Warranty and Maintenance

- a. A comprehensive warranty of three (03) years shall be provided for all supplied hardware, software components, and workmanship, effective from the date of commissioning.
- b. The Contractor shall provide free preventive and corrective maintenance services for the first 3 years from the date of commissioning.
- c. The Contractor shall enter into a Comprehensive Annual Maintenance Contract (CAMC) after the three-year warranty period.
- d. The Contractor shall ensure a maximum response and resolution time of four (04) hours for any complaint or failure during both the warranty and CAMC periods. Support shall be available 24/7, with escalation procedures and remote diagnostic capabilities in place

3.4 Minimum Technical Specifications

Refer Annexure 1 for detailed technical compliance checklist. Bidders must fill out and return the completed table with their technical proposal.





FORM OF BID

NAME OF CONTRACT: DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS.-KPR/45/2025

To: Ceylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa, Wellampitiya. We have examined the Conditions of Contract, Employer's Requirements, Schedules and Addenda Nos...... for the execution of the above-named Works. We accordingly offer to design, execute and complete the said Works and remedy any defects fit for the purposes, in conformity with the Bidding Documents and the enclosed Proposal, at the lump sum stated in the Form of Price Proposal included in a separate envelope and submitted with this bid, or other such sums as may be determined in accordance with the terms and conditions of the Contract. We confirm that our bid includes this Preliminary Information, Financial Proposal, and Design/Technical Proposal sealed in three separate envelopes. We agree to abide by this Bid until 25.11.2025, and it shall remain binding upon us and may be accepted at any time before that date. We confirm that, we (including all members of a joint venture and subcontractors) are not associated, directly or indirectly, with the consultant or any other entity in preparation of the design, specifications, and other documents for the Contract. If this offer is accepted, we will provide the specified Performance Security, commence the Works as soon as reasonably practicable after the Commencement Date, and complete the Works in accordance with the above-named documents within the Time for Completion. We will ensure that the Works will be executed in conformity with the Contract. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us. We understand that you are not to bound at accept the lowest offer or any other bid you may receive. Signature of the persons duly authorized to sign documents for and on behalf of Contact No: email

Date:

Company Seal:

Section VIII (a) Schedules ("A"-Schedules)

SHEDULES Schedule A1 - Preliminary Information

(Enclose this Schedule in the envelope marked, "Envelope 1 - Preliminary Information")(i) For joint venture, each joint venture partner shall furnish information separately

ITB clause reference	Description	Information (to be filled by the Bidder)	Remarks
3.1	CIDA Registration (if any	y)	
	Registration number Specialty Grade Electrical EM1 Installation (EL-LV & ELV)	(Yes/No)	Provide certified copies and label them as attachment to Clause 3.1
4.1 (a)	Expiry Date Legal Status If a Joint Venture, names and addresses of Joint venture partners If a Joint Venture, name of the Lead Partner	1 2 3	Provide a certified copy of the Joint Venture Agreement.
		t venture partner shall furnish	
	Name (Lead partner) Legal status		Provide certified copies and label them as attachment to Clause 4.1 (a)
	Place of registration		
	Principal place of business		

Written power of attorney of the signatory to the Bid VAT Registration Number Name (Partner 2) Provide original or certified copy of the power of attorney attested by a Notary and label them as attachment to Clause 4.1 (a)

Legal status

Place of registration

Principal place of business

Written power of attorney of the signatory to the Bid

VAT Registration Number

Name (Partner 3)

Legal status

Place of registration

Principal place of business

Written power of attorney of the signatory to the Bid

VAT Registration Number Provide certified copies and label them as attachment of Clause 4.1 (a)

Provide original or certified copy of the power of attorney attested by a Notary and label them as attachment to Clause 4.1 (a)

Provide certified copies and label them as attachment of Clause 4.1 (a)

Provide original or certified copy of the power of attorney attested by a Notary and label them as attachment to Clause 4.1 (a)

Schedule A2 - Annual Turn-over Information

(Similar nature only - Last five years)

(Refer Clause 4.3 (a) of Bidding data and Clause 4.1 of Instructions to Bidders)

(Enclose this Schedule in envelope marked, "Envelope 1 - Preliminary Information")

i. For joint venture, each joint venture partner shall furnish information separately

Year	Turn-over	Remarks
1		
2	•	Attach audited reports and label them as attachment to
3		Clause 4.1 (c) (i)
4		
5		

Schedule A3 - Adequacy of Working Capital

(Refer Clause 4.3 (g) of Bidding data and Clause 4.1 of Instructions to Bidders)

(Enclose this Schedule in envelope marked, "Envelope 1 - Preliminary Information")

Source of credit line	Amount	Remarks
		Provide documentary evidence and label them as attachment to Clause 4.1 (c) (ii)
Total		

Schedule A4 - Experience in last five years

(To be attached certified copies of Letter of award, Purchase order and Certificate of Completion) (Enclose this Schedule in envelope marked, "Envelope 1 - Preliminary Information")

- (i) If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification
- (ii) For joint ventures, each joint venture partner shall furnish information separately
- (iii) List similar works first

Year	Employer	Description of Works	Amount	Contractor's Responsibility (%)
		Total		

Schedule A5 - Design Experience in last five years

(To be attached certified copies of Letter of award, Purchase order and Certificate of Completion)

(Enclose this Schedule in envelope marked, "Envelope 1 - Preliminary Information")

- (i) For joint ventures, each joint venture partner shall furnish information separately
- (ii) List similar works first

Year	Employer	Description of Works	Amount*	Responsibility (%)
			VY	
			Y	
		Total		

^{*} Project Cost

Schedule A6 - Major Items of Equipment Proposed

(Enclose this Schedule in envelope marked, "Envelope 1 - Preliminary Information")

Type	Capacity	Ownership of the
		Equipment
		(Owned by Bidder/ Hired
	4	
		7
	7	
#		

Schedule FIN 1 – Current Contract Commitment

(Refer Clause 4.3 (g) of Bidding data and Clause 4.1 of Instructions to Bidders)

(Enclose this Schedule in envelope marked, "Envelope 1 - Preliminary Information")

No:	Name of contract/ Employer	Awarded sum & date	Construction period (Months)	Value of work completed up to	Value of balance work Rs. Cts.

[Certified copies of Letter of award, Purchase order and last interim payment certificates should be attached]

CHECK LIST FOR BIDDERS

Envelop	Item	Yes (tick)	Reference
Envelop 1			
	Preliminary Information (Original & Copy)		
	Volume 1A of the Bidding Document		
	Invitation to Bid		
	Section II - Bidding Data		
	Section IV - contract Data		
	Section VI - Employer's Requirement		
	Power of attorney for the signatory of the bid		/
	Duly filled and signed Form of Bid		
	Bid Security		
	Duly filled "A" Schedules - "General Information"		
	Other information listed in Bidding Data		
	Any other information, bidder may wish to include		
Envelop 2			
	Design / Technical Proposal (Original & Copy)		
	Duly filled and signed Form of Design / Technical Proposal		
	Duly filled "B" Schedules - "Comments and suggestions on employer's requirement" (if any)		
	Contractor's Proposal		
	Drawings including simulations for each site		
	Other information listed in Bidding Data		
	Any other information, bidder may wish to include		
Envelop 3			
	Price Proposal (Original & Copy)		
	Duly filled and signed Form of Price Proposal		
	Duly filled "C" Schedules - "Price Schedules"		

Annexure 01

Bidder Response to Minimum Technical Specifications

Instructions to Bidder:

For each item below, indicate "Yes or No" in the Compliance column. If "Not Complied," explain clearly in the Remarks column and suggest any deviations with supporting documents. All fields must be completed.

1- Outdoor Bullet Camera

	Item Description	Requirement	Complia nce (yes/no)	Remarks/ deviation
	Product Data		() =====	
1	Item Type	Outdoor Bullet Camera		
1.1.1	Brand	(Specify)		
1.1.2	Model	(Specify)		
1.1.3	Country of origin	(Specify)		
1.1.4	Country of manufacture	(Specify)		
1.2	Image sensor			
1.2.1		1/3" progressive scan CMOS		
1.3	Lens			
1.3.1		Focal length should be selected according to the FOV requirement		
1.3.2	Vertical field of view	60 ⁰ or greater		
1.3.3		Fixed iris, Fixed focus, IR corrected		
1.3.4	Day and night	Automatically removable infrared-cut filter		
1.4	Minimum illumination			
1.4.1	Color	0.2 lux at F/2.0		
1.4.2	B/W	0.04 lux at F/2.0		
1.4.3		0 lux with IR illumination on		
1.5	Shutter speed			
1.5.1		1 to 1/10000 S or better		
1.6	Video compression			
1.6.1		H.264 (MPEG-4 Part 10/AVC)		
1.6.2		H.265 (MPEG-H Part 2/HEVC)		
1.6.3		Motion JPEG (M-JPEG)		
1.7	Resolution			

1.7.1		4 Megapixels - 2560 x 1440	1	
1./.1		pixels (in accordance with		
		SMPTE standard)		
1.8	Frame rate	SWITE standard)		
1.8.1	Traine rate	Up to 30 fps with power line	l	
1.0.1		frequency 50 Hz		
1.9	Video streaming	requericy 50 Hz		
1.9.1	video streaming	4- Multiple, individually		
1.9.1		configurable streams in H.264,		
		H.265 and		
		Motion JPEG		
1.10	Image settings	World of EG		
1.10.1	go	Compression, color, brightness,		
1.10.1		sharpness, contrast, local		
		contrast, white balance, exposure		
		control		
1.10.2		Wide Dynamic Range		
1.10.3		Privacy masks		
1.11	Network Security			
1.11.1	•	Password protection, IP address	7	
		filtering		
1.11.2		HTTPS encryption, IEEE 802.1x		
1.11.3		Network Access Control		
1.11.4		User access log.		
1.12	Supported protocols			
1.12.1		IPV4 and IPV6		
		TCP/IP, HTTP, DHCP, DNS,		
		DDNS, RTP, RTSP, SMTP,		
		NTP, SNMP v1/ v2/ v3, HTTPS,		
		FTP, IGMP., Layer 4 -TCP and		
		UDP. SSH		
1.13	Application			
	Programming			
1 10 1	Interface		T	
1.13.1		Open API for software		
		integration (bidder to provide written evidence)		
1.14	Included Analytics	written evidence)		
1.14	from day one			
1.14.1		Video Motion Detection		
1.15	Event triggers			
1.15.1		Analytics, edge storage events		
1.16	Event actions			
		Record video: SD card and		
		network share		

1.16.1 1.17	Casing	Upload of images or video clips: FTP, SFTP, HTTP, HTTPS, network share and email pre-and post-alarm video or image buffering for recording or upload Notification: email, HTTP, HTTPS, TCP and SNMP trap Overlay text		
1.17.1		IP66 and IK 10		
1.18	Power			
1.18.1		PoE - IEEE 802.3af/802.3at Type 1 Class 2		
1.19	Connector			
1.19.1		RJ45 10BASE-T/100BASE-TX PoE		,
1.20	IR illumination			
1.20.1		Power-efficient, long-life 850 nm IR LED. Range of reach up to 40m depending on scene	7	
1.20.2		The camera shall be equipped with built-in IR LEDs with automatic seamless adapting angle of illumination and intensity.		
1.21	Storage		<u> </u>	
1.21.1		Support for microSD/ microSDHC /microSDXC card of 128GB		
1.21.2		Support for SD card encryption		
1.21.3		Support for recording to network- attached storage (NAS)		
1.22	Operating conditions		,	
1.22.1	Temperature	-30 °C to 50 °C		
1.22.2	Humidity	10–100% RH (condensing)		
1.22.3		Corrosion resistance standard		
1.23	Approvals		ı	
1.23.1		EMC (Attached Vendor Certificate)		
1.23.2		Environment (Attached Vendor Certificate)		
1.23.3		Safety (Attached Vendor Certificate)		
1.23.4		Network (Attached Vendor Certificate)		

1.24	Certificate/Compliance			
	S			
1.24.1		Shall have FCC, CE and UL		
		certificates		
1.24.2		Prevent any OEM manufacturer		
		to incorporate in their firmware, a		
		method for gaining access to any		
		device globally.		
1.25	MTBF			
1.25.1		> 40,000 Hr (Attached Vendor		
		Certificate)		
1.26	Manufacturer Authoriza	ntion Letter (MAL)		
1.26.1		MAL shall be submitted	A 7	
1.27	Warranty			
1.27.1		shall have 3 years		
		Comprehensive warranty and the		
		same shall be submitted on		
		manufacturers Letter head)	
		(Comprehensive Warranty)		

2 - Outdoor Vary focal Bullet Camera

	Item Description	Requirement	Compli ance (yes/no)	Remarks / deviation
	Product Data			
2	Item Type	Outdoor Vary focal Bullet Camera		
2.1.1	Brand	(Specify)		
2.1.2	Model	(Specify)		
2.1.3	Country of origin	(Specify)		
2.1.4	Country of manufacture	(Specify)		
2.2	Image sensor			
2.2.1		1/3" progressive scan RGB CMOS		
2.3	Lens			
2.3.1	Varifocal	3–9 mm, F1.6		
2.3.2	Horizontal field of view	114°-37°		
2.3.3	Vertical field of view	58°-21°		
2.3.4		Varifocal, Remote focus and zoom, P- Iris control, IR corrected		
2.3.5	Day and night	Automatically removable infrared-cut filter		
2.4	Minimum illumination			
2.4.1	Color	0.07 lux at F2.0		
2.4.2	B/W	0.01 lux at F2.0	_	_

2.4.3		0 lux with IR illumination on	
2.5	Video compression		
2.5.1	-	H.264 (MPEG-4 Part 10/AVC)	
2.5.2		H.265 (MPEG-H Part 2/HEVC)	
2.5.3		Motion JPEG (M-JPEG)	
2.6	Bandwidth	,	
	compensation and		
	optimization		
2.6.1		Must have In-house Processor for	
		Bandwidth Compensation &	
2.7	D 14	Optimization	
2.7	Resolution	4 Managinal 25 (0 - 1440 minute (14	
2.7.1		4 Megapixels - 2560 x 1440 pixels (in accordance with SMPTE standard)	·
2.8	Frame rate	accordance with 51/11 112 standard)	
2.8.1	Traine rate	Up to 30 fps with power line frequency	
2.0.1		50 Hz	
2.9	Video streaming		
2.9.1		Multiple, individually configurable	
		streams in H.264, H.265 and	
		Motion JPEG	
		Controllable frame rate and bandwidth	
2 10	Imaga sattings	VBR/ABR/MBR H.264/H.265	
2.10	Image settings		
2.10 2.10.1	Image settings	Compression, color, brightness,	
	Image settings		
	Image settings	Compression, color, brightness, sharpness, contrast, local contrast,	
	Image settings	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold,	
	Image settings WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones,	
2.10.1		Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive	
2.10.1		Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic,	
2.10.1 2.10.2 2.10.3	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive	
2.10.1 2.10.2 2.10.3		Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview	
2.10.1 2.10.2 2.10.3	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address	
2.10.1 2.10.2 2.10.3 2.11 2.11.1	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering	
2.10.1 2.10.2 2.10.3	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address	
2.10.1 2.10.2 2.10.3 2.11 2.11.1	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE	
2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE 802.1x(EAP-TLS)	
2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2 2.11.3	WDR	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE 802.1x(EAP-TLS) Network Access Control	
2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2 2.11.3 2.11.4	WDR Network Security	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE 802.1x(EAP-TLS) Network Access Control	
2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2 2.11.3 2.11.4 2.12	WDR Network Security	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE 802.1x(EAP-TLS) Network Access Control User access log.	
2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2 2.11.3 2.11.4 2.12	WDR Network Security	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE 802.1x(EAP-TLS) Network Access Control User access log. IPV4 and IPV6 TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, SMTP, NTP, SNMP v1/	
2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2 2.11.3 2.11.4 2.12	WDR Network Security	Compression, color, brightness, sharpness, contrast, local contrast, white balance, day/night threshold, exposure mode, exposure zones, defogging, compression Up to 120 dB depending on scene Privacy masks, motion-adaptive exposure Scene profiles: forensic, Traffic overview Password protection, IP address filtering HTTPS encryption, IEEE 802.1x(EAP-TLS) Network Access Control User access log.	

2.13	Application			
	Programming			
	Interface			
2.13.1		Open API for software integration		
		(bidder to provide written evidence)		
2.14	Onscreen controls		T	
2.14.1		Day/nights shift Wide dynamic range		
		Video streaming indicator IR illumination		
2.15	Included Analytics	1R illumination		
2.15	Included Analytics from day one			
2.15.1	nom day one	Video Motion Detection		
2.15.2	Object classes	humans, vehicles		
2.15.3	Trigger conditions	line crossing, object in area Up to 10		
	Trigger Conditions	scenarios		
2.15.4		Polygon include/exclude areas		
2.15.5		Perspective configuration		
2.15.6		ONVIF Motion Alarm event		
2.16	Event triggers			
2.16.1	Analytics Detectors:	live stream accessed, video motion		
		detection, audio detection, day/night		
		mode, shock detection, tampering		
2.16.2	Hardware:	network, temperature Input Signal:		
		digital input port, manual trigger,		
		virtual inputs Storage: disruption, recording System: system ready Time:		
		recurrence, use schedule		
2.17	Event actions	recurrence, and nemerical		
2.17.1	2,010,000,010	Record video: network share	l	
2.17.1		Upload of images or video clips: FTP,		
		SFTP, HTTP, HTTPS, network share		
		and email		
		Pre- and post-alarm video or image		
		buffering for recording or upload		
		Notification: email, HTTP, HTTPS,		
• 10		TCP and SNMP trap		
2.18	Casing	VDCC (TDCT - 1 W/10 - 1 - 1	I	
2.18.1	*	IP66/IP67 and IK10-rated casing		
2.19	Power	Polycarbonate blend and aluminum		
	1 UWCI	DoE IEEE 902 2 of /902 2 of Trime 1		
2.19.1		PoE - IEEE 802.3af/802.3at Type 1 Class 3		
2.20	Connector			
2.20.1		Shielded RJ45 10BASE-T/100BASE-		
2.20.1		TX/1000BASE-T		
			I	

		2.5 . 7: . T 111 1.6	<u> </u>	
		3.5 mm mic/line in Terminal block for		
		1 supervised alarm input and 1 output		
2.21	TD 111 1 11	(12 V DC output, max. load 25 mA)		
2.21	IR illumination		· ·	
2.21.1		Optimized IR with power-efficient,		
		long-life 850 nm IR LEDs		
		Range of reach 40 m or more		
		depending on the scene		
2.21.2		The camera shall be equipped with		
		built-in IR LEDs with automatic		
		seamless adapting angle of		
		illumination and intensity.		
2.22	Storage			
2.22.1		Support for microSD/ microSDHC		
		/microSDXC card of 128GB		
2.22.2		Support for SD card encryption		
2.22.3		Support for recording to network-		
		attached storage (NAS)		
2.23	Operating conditions			
2.23.1	Temperature	-40°C to 60°		
2.23.2	Humidity	10–100% RH (condensing)		
2.23.3		Corrosion resistance standard		
2.23.3		Corrosion resistance standard		
2.24	Approvals	Corrosion resistance standard		
	Approvals	EMC (Attached Vendor Certificate)		
2.24	Approvals			
2.24 2.24.1	Approvals	EMC (Attached Vendor Certificate)		
2.24 2.24.1	Approvals	EMC (Attached Vendor Certificate) Environment (Attached Vendor		
2.24 2.24.1 2.24.2	Approvals	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate)		
2.24 2.24.1 2.24.2 2.24.3 2.24.4		EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate)		
2.24 2.24.1 2.24.2 2.24.3	Approvals Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate)		
2.24 2.24.1 2.24.2 2.24.3 2.24.4	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate)		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate)		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1	Certificate/Compliance	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device		
2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1 2.25.2	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device globally.		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1 2.25.2	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device globally. > 40,000 Hr (Attached Vendor		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1 2.25.2 2.26 2.26.1	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device globally. > 40,000 Hr (Attached Vendor		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1 2.25.2 2.26 2.26.1	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device globally. > 40,000 Hr (Attached Vendor Certificate)		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1 2.25.2 2.26 2.26.1	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device globally. > 40,000 Hr (Attached Vendor Certificate) Supplier shall have at least 1 vendor		
2.24 2.24.1 2.24.2 2.24.3 2.24.4 2.25 2.25.1 2.25.2 2.26 2.26.1	Certificate/Compliance s	EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate) Safety (Attached Vendor Certificate) Network (Attached Vendor Certificate) Shall have FCC, CE and UL certificates Prevent any OEM manufacturer to incorporate in their firmware, a method for gaining access to any device globally. > 40,000 Hr (Attached Vendor Certificate) Supplier shall have at least 1 vendor certified engineers in permanent		

2.28	Manufacturer Authorization Letter (MAL)		
2.28.1	(MAL)	MAL shall be submitted	
2.29	Warranty		
2.29.1		shall have 3 years Comprehensive	
		warranty and the same shall be	
		submitted on manufacturers Letter	
		head (Comprehensive Warranty)	

3 - Indoor Dome Camera

	Item Description	Requirement	Compli ance (yes/no)	Remarks / deviation
3	Product Data			
3.1	Item Type	Indoor Dome Camera		
3.1.1	Brand	(Specify)		
3.1.2	Model	(Specify)		
3.1.3	Country of origin	(Specify)		
3.1.4	Country of manufacture	(Specify)		
3.2	Image sensor			
3.2.1		1/3" progressive scan RGB CMOS		
3.3	Lens			
3.3.1		2.8/4/6 mm, F2.0 (Focal length should be selected according to the FOV requirement by SL Army		
3.3.2	Horizontal field of view	100° or better		
3.3.3	Vertical field of view	50° or better		
3.3.4		Fixed iris, Fixed focus, IR corrected		
3.3.5	Day and night	Automatically removable infrared-cut filter		
3.4	Minimum illumination			
3.4.1	Color	0.2 lux at F/2.0		
3.4.2	B/W	0.05 lux at F/2.0		
3.4.3		0 lux with IR illumination on		
3.5	Video compression			
3.5.1		H.264 (MPEG-4 Part 10/AVC)		
3.5.2		H.265 (MPEG-H Part 2/HEVC)		
3.5.3		Motion JPEG (M-JPEG)		
3.6	Resolution			
3.6.1		4 Megapixels - 2560 x 1440 pixels (in accordance with SMPTE standard)		
3.7	Frame rate			

0.7.1	T	Txx - 20.6 - 11 - 11 - 6	
3.7.1		Up to 30 fps with power line frequency	
		50 Hz	
3.8	Video streaming		
3.8.1		Multiple, individually configurable	
		streams in H.264, H.265 and	
		Motion JPEG	
3.8.2		Controllable frame rate and bandwidth	
3.8.3		Technology to reduce bandwidth	
3.0.3		(Describe)	
3.8.4		VBR/ABR/MBRH.264/H.265	
	т 44.	V BR/ABR/WBR11.204/11.203	
3.9	Image settings		
3.9.1		Compression, color saturation,	
		brightness, sharpness, contrast,	
		local contrast, white balance, day/night	
		threshold, tone mapping, exposure	
		control (including automatic gain	
		control), exposure	
		zones	
3.9.2		WDR	
3.9.3		Defogging, dynamic text and image	
		overlay, Privacy masks	
3.10	Audio		
3.10.1		One way audio connectivity	
3.11	Network Security		
3.11.1		Password protection, IP address	
		filtering	
3.11.2		HTTPS encryption, IEEE	
		802.1x(EAP-TLS)	
3.11.3		Network Access Control	
3.11.4		User access log, Centralized	
3.11.4		Certificate Management	
3.12	Supported protocols		
3.12.1	~ apported protocols	IPV4 and IPV6	
5.12.1		TCP/IP, HTTP, DHCP, DNS, DDNS,	
		RTP, RTSP, SMTP, NTP, SNMP v1/	
		v2/ v3, HTTPS, FTP, IGMP., Layer 4 -	
		TCP and UDP. SSH	
3.13	Application	101 min 021 031	
0.10	Programming		
	Interface		
3.13.1		Open API for software integration	
		(bidder to provide written evidence)	
3.14	Onscreen controls	X	
3.14.1		Day/nights shift Wide dynamic range	
3.17.1		Video streaming indicator	
		video streaming indicator	

		IR illumination]	
3.15	Included Analytics	TK Indimination		
0.10	from day one			
3.15.1		Video Motion Detection		
3.15.2	Supported Analytics	Loitering		
3.16	Event actions	201111115		
3.16.1	270110010110	Record video: network share		
3.10.1		Upload of images or video clips: FTP,		
		SFTP, HTTP, HTTPS, network share,		
		and email pre-and post-alarm video or		
		image buffering for recording or		
		upload		
		Notification: email, HTTP, HTTPS,		
		TCP, and SNMP trap Overlay text		
3.17	Casing	Oronay toat		
3.17.1		IP66 and IK10		
3.17.1		Encapsulated electronics and captive		
		screws (Torx 10)		
3.18	Power			
3.18.1		PoE - IEEE 802.3af/802.3at Type 1		
		Class 3		
3.19	Connector			
3.19.1		RJ45 10BASE-T/100BASE-TX PoE		
		Audio and I/O connectivity		
3.20	IR illumination	27 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
3.20.1		Power-efficient, long-life 850 nm IR		
		LED. Range of reach 20m or more		
3.20.2		depending on the scene The camera shall be equipped with		
3.20.2		built-in IR LEDs with automatic		
		seamless adapting angle of		
		illumination and intensity.		
3.21	Storage			
3.21.1		Recording to network-attached storage		
		(NAS)		
3.22	Operating conditions			
3.22.1	Temperature	-30 °C to 50 °C		
2 22 2		1 10 1000/ DII/ 1 ' \		
3.22.2	Humidity	10–100% RH (condensing)		
3.22.3	,	Corrosion resistance standard		
3.22.3 3.23	Approvals	Corrosion resistance standard		
3.22.3	,	Corrosion resistance standard EMC (Attached Vendor Certificate)		
3.22.3 3.23	,	Corrosion resistance standard EMC (Attached Vendor Certificate) Environment (Attached Vendor		
3.22.3 3.23 3.23.1 3.23.2	,	Corrosion resistance standard EMC (Attached Vendor Certificate) Environment (Attached Vendor Certificate)		
3.22.3 3.23 3.23.1	,	Corrosion resistance standard EMC (Attached Vendor Certificate) Environment (Attached Vendor		

3.24	Certificate/Compliance		
	s		
3.24.1		Shall have FCC, CE and UL	
		certificates	
3.24.2		Prevent any OEM manufacturer from	
		incorporating in their firmware a	
		method for gaining access to any	
		device globally.	
3.25	MTBF		
3.25.1		> 40,000 Hr (Attached Vendor	
		Certificate)	
3.26	Vendor Certification		
3.26.1		Supplier shall have at least 1 vendor certified engineers in permanent carder. Please provide the certification copies	
3.27	Manufacturer		
	Authorization Letter		
	(MAL)		
3.27.1		MAL shall be submitted	
3.28	Warranty		
3.28.1		shall have 3 years Comprehensive	
		warranty and the same shall be	
		submitted on manufacturers Letter	
		head (Comprehensive Warranty)	

4 - Outdoor PTZ Camera

	Item Description	Requirement	Compli	Remarks
			ance	/
			(yes/no)	deviation
4	Product Data			
4.1	Item Type	Outdoor PTZ Camera		
4.1.1	Brand	(Specify)		
4.1.2	Model	(Specify)		
4.1.3	Country of origin	(Specify)		
4.1.4	Country of manufacture	(Specify)		
4.2	Image sensor			
4.2.1		1/3" progressive scan RGB CMOS		
4.3	Lens			
4.3.1		Varifocal, 4.0-135 mm, F1.4 - 4.0		
4.3.2		Autofocus, auto-iris		
4.3.3	Day and night	Automatically removable infrared-cut		
		filter		
4.4	Minimum illumination			

4.4.1	Color	0.09 lux at F/2.0	
4.4.2	B/W	0.008 lux at F/2.0	
4.4.3	2, , ,	0 lux with IR illumination on	
4.4.4	Shutter speed	1/60000 s to 2 s or better	
4.5	Pan/Tilt/Zoom	1,00000 5 to 2 5 of cetter	
4.5.1	Pan	360° 0.05°–700°/s	
4.5.2	Tilt	+20 to -90°, 0.05°–500°/s	
4.5.3	Zoom:	32x optical, 12x digital, total 384x	
1.5.5	Zoom.	zoom	
4.5.4		Nadir flip, 256 preset positions, tour	
		recording, guard tour, control queue,	
		on-screen directional indicator,	
		orientation aid PTZ, set new pan 0°,	
1.6	Video commence:	adjustable zoom speed, speed dry	
4.6	Video compression	HACA AMPEC A P. (10/AMC)	
4.6.1		H.264 (MPEG-4 Part 10/AVC)	
4.6.2		H.265 (MPEG-H Part 2/HEVC)	
4.6.3		Motion JPEG (M-JPEG)	
4.7	Resolution		
4.7.1		4 Megapixels - 2560 x 1440 pixels (in	
4.0	E	accordance with SMPTE standard)	
4.8	Frame rate	He to 50 fro with cover line from one	
4.8.1		Up to 50 fps with power line frequency 50 Hz	
4.9	Video streaming	JOHE	
4.9.1	, , , , , , , , , , , , , , , , , , ,	Multiple, individually configurable	
		·	
		streams in H.264, H.265 and	
		streams in H.264, H.265 and Motion JPEG	
4.9.2			
4.9.2 4.9.3		Motion JPEG	
		Motion JPEG Controllable frame rate and bandwidth	
		Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth	
4.9.3	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe)	
4.9.3	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness,	
4.9.3 4.9.4 4.10	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast,	
4.9.3 4.9.4 4.10	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control,	
4.9.3 4.9.4 4.10 4.10.1	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones	
4.9.3 4.9.4 4.10 4.10.1	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones WDR	
4.9.3 4.9.4 4.10 4.10.1	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones WDR Defogging, day/night shift level, tone	
4.9.3 4.9.4 4.10 4.10.1	Image settings	Motion JPEG Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones WDR Defogging, day/night shift level, tone mapping, fine tuning low-light	
4.9.3 4.9.4 4.10 4.10.1 4.10.2 4.10.3	Image settings	Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones WDR Defogging, day/night shift level, tone mapping, fine tuning low-light behavior.	
4.9.4 4.10 4.10.2 4.10.3	Image settings	Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones WDR Defogging, day/night shift level, tone mapping, fine tuning low-light behavior. Rotation: 0°, 180°	
4.9.3 4.9.4 4.10 4.10.1 4.10.2 4.10.3	Image settings	Controllable frame rate and bandwidth Technology to reduce bandwidth (Describe) VBR/ABR/MBRH.264/H.265 Compression, saturation, brightness, sharpness, contrast, local contrast, white balance, exposure control, exposure zones WDR Defogging, day/night shift level, tone mapping, fine tuning low-light behavior.	

4.10.6		Electronic Image Stabilization (EIS)	
4.10.7		Scene profiles	
4.10.8	NA LO M	32 individual polygon privacy masks	
4.11	Network Security		
4.11.1		Password protection, IP address	
		filtering	
4.11.2		HTTPS encryption, IEEE 802.1x	
4.11.3		Network Access Control	
4.11.4		User access log, Centralized	
		Certificate Management	
4.11.5		Protection of cryptographic keys with	
		FIPS 140-2 certified TPM 2.0 module	
4.12	Supported protocols		
4.12.1		IPV4 and IPV6	
		TCP/IP, HTTP, DHCP, DNS, DDNS,	
		RTP, RTSP, SMTP, NTP, SNMP v1/	
		v2/ v3, HTTPS, FTP, IGMP., Layer 4 -	
4.12	A 10 40	TCP and UDP. SSH	
4.13	Application		
	Programming		
4 12 1	Interface	On an ADI Construction and an	
4.13.1		Open API for software integration (bidder to provide written evidence)	
		(bluder to provide written evidence)	
111	Included Analytics		
4.14	Included Analytics		
	Included Analytics from day one	Object classes: humans, vehicles	
4.14.1	_	Object classes: humans, vehicles Trigger conditions: line crossing.	
	_	Trigger conditions: line crossing,	
	_	Trigger conditions: line crossing, object in area	
	_	Trigger conditions: line crossing,	
	_	Trigger conditions: line crossing, object in area Up to 10 scenarios	
	_	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration	
4.14.1	_	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event	
4.14.1	_	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection,	
4.14.1	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection,	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing,	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger,	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input PTZ: PTZ malfunctioning, PTZ	
4.14.1 4.14.2 4.15	from day one	Trigger conditions: line crossing, object in area Up to 10 scenarios Perspective configuration ONVIF Motion Alarm event Fence Protection, Motion Detection, Loitering, auto tracking Analytics Device status: above operating temperature, above or below operating temperature, below operating temperature, fan failure, IP address removed, network lost, new IP address, shock detected, storage failure, system ready, within operating temperature Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input	

event Video: live stream open, day/night mode 4.16 Event actions	
, ,	
4.16 Event actions	
4.16.1 Record video: SD card and network	
share Pre- and post-alarm video or	
image buffering for recording or	
upload Upload of images or video	
clips: FTP, SFTP, HTTP, HTTPS,	
network share, and email Notification: email, HTTP, HTTPS, TCP, and	
SNMP trap PTZ: PTZ preset, guard	
tour Overlay text, day/night mode	
WDR mode IR illumination	
4.17 Casing	
4.17.1 IK10 housing and mounting, IP66	
4.18 Sustainability	
4.18.1 PVC free	
4.19 Memory	
4.19.1 1024 MB RAM, 512 MB Flash	
4.20 Power	
4.20.1 High PoE midspan 1- 100–240 V AC, max 74 W	
port:	
4.20.2 Camera consumption: typical 13.5 W (no IR), max 51 W	
4.21 Connector	
4.21.1 RJ45 10BASE-TX PoE	
RJ45 Push-pull Connector (IP66)	
4.22 IR illumination	<u> </u>
4.22.1 Range of reach 250 m or more	
depending on the scene	
The camera shall be equipped with built-in IR LEDs with automatic	
seamless adapting angle of	
illumination and intensity	
4.23 Storage	
4.23.1 Recording to network-attached storage	
(NAS)	
4.24 Operating conditions	
4.24.1 Temperature -50 °C to 50 °C	
4.24.2 Humidity 10–100% RH (condensing)	
4.24.3 Corrosion resistance standard	
4.25 Approvals	
4.25.1 EMC (Attached Vendor Certificate)	
4.25.2 Environment (Attached Vendor Certificate)	
4.25.3 Safety (Attached Vendor Certificate)	

4.25.4		Network (Attached Vendor Certificate)	
4.26	Certificate/Compliance		
	s		
4.26.1		Shall have FCC, CE and UL	
		certificates	
4.26.2		Prevent any OEM manufacturer to	
		incorporate in their firmware, a method	
		for gaining access to any device	
		globally.	
4.27	MTBF		
4.27.1		> 40,000 Hr (Attached Vendor	
		Certificate)	
4.28	Manufacturer		
	Authorization Letter		
	(MAL)		
4.28.1		MAL shall be submitted	
4.29	Warranty		·
4.29.1		shall have 3 years Comprehensive	
		warranty and the same shall be	/
		submitted on manufacturers Letter	
		head (Comprehensive Warranty)	

5 - Outdoor ANPR Camera

	Item Description	Requirement	Compli ance (yes/no)	Remark s/ deviatio n
5	Product Data		•	
5.1	Item Type	Outdoor ANPR Camera		
5.1.2	Brand	(Specify)		
5.1.3	Model	(Specify)		
5.1.4	Country of origin	(Specify)		
5.1.5	Country of manufacture	(Specify)		
5.2	Image sensor			
5.2.1	*	1/3" progressive scan RGB CMOS		
5.3	Lens			
5.3.1		Varifocal, 3–9 mm, F1.6		
5.3.2	Horizontal field of view	114°-37°		
5.3.3	Vertical field of view	58°-21°		
5.3.4		Varifocal, Remote focus and zoom, P- Iris control, IR corrected		
5.3.5	Day and night	Automatically removable infrared-cut filter		

5.4	Minimum illumination		
5.4.1	Color	0.07 lux at F/2.0	
5.4.2	B/W	0.01 lux at F/2.0	
5.4.3	2, , ,	0 lux with IR illumination on	
5.5	Video compression		
5.5.1	, raco compression	H.264 (MPEG-4 Part 10/AVC)	
5.5.2		H.265 (MPEG-H Part 2/HEVC)	
5.5.3		Motion JPEG (M-JPEG)	
5.6	Bandwidth	Model #1 EG (M #1 EG)	
	compensation and optimization		
5.6.1		Must have In-house Processor for Bandwidth Compensation & Optimization	
5.7	Resolution		
5.7.1		4 Megapixels - 2560 x 1440 pixels (in accordance with SMPTE standard)	/
5.8	Frame rate		
5.8.1		Up to 30 fps with power line frequency 50 Hz	
5.9	Video streaming		
5.9.1		Multiple, individually configurable	
		streams in H.264, H.265 and	
		Motion JPEG	
7.0.0			
5.9.2		Controllable frame rate and bandwidth	
5.9.3	T (1)	VBR/ABR/MBRH.264/H.265	
5.10	Image settings		
5.10.1		Saturation, contrast, brightness, sharpness	
5.10.2		WDR	
5.10.3		white balance, day/night threshold,	
2.13.8		exposure mode, exposure zones,	
		defogging, compression	
5.10.4		Dynamic text and image overlay	
5.10.5		Privacy masks, motion-adaptive	
		exposure Scene profiles: forensic,	
5.11	Network Security	Traffic overview	
5.11.1	THE WOLK SECULITY	Password protection, IP address	
J.11.1		filtering	
5.11.2		HTTPS encryption	
		IEEE 802.1x	
5.11.3		Network Access Control	

5.11.4		User access log, Centralized	
3.11.1		Certificate Management	
5.11.6		Brute force delay protection	
5.12	Supported protocols	Brate force delay protection	
	Supported protocols	IDM/A 1 IDM/C	
5.12.1		IPV4 and IPV6	
		TCP/IP, HTTP, DHCP, DNS, DDNS,	
		RTP, RTSP, SMTP, NTP, SNMP v1/	
		v2/ v3, HTTPS, FTP, IGMP., Layer 4 -	
F 10	A 10 40	TCP and UDP. SSH	
5.13	Application		
	Programming Interface		
£ 12 1	Interface	On an ADI for anti-war interpretion	
5.13.1		Open API for software integration	
5.14	Onscreen controls	(bidder to provide written evidence)	
	Onscreen controls		
5.14.1		Day/night shift Defogging	
		Wide dynamic range Video streaming	
F 4 F	T 1 1 7 4 7 4	indicator IR illumination	
5.15	Included Analytics		
~ . ~ .	from day one		
5.15.1		Video Motion Detection, tampering	
		alarm, shock detection, Perimeter	
- 1 - 2		protection	
5.15.2		Object classes: humans, vehicles	
		Trigger conditions: line crossing,	
		object in area Up to 10 scenarios	
		Metadata visualized with color-coded	
		bounding boxes Polygon	
		include/exclude areas Perspective	
		configuration ONVIF Motion Alarm event	
5.16	Event conditions	ONVIF Motion Alarm event	
		11:	
5.16.1	Analytics Detectors:	live stream accessed, video motion	
		detection, audio detection, day/night	
5.16.0	YY1	mode, shock detection, tampering	
5.16.2	Hardware:	network, temperature	
5.16.3	Input Signal:	digital input port, manual trigger,	
	7	virtual	
7151	a.	inputs	
5.16.4	Storage:	disruption, recording	
5.17	Event actions		
5.17.1		Record video: SD card and network	
		share Pre- and post-alarm video or	
		image buffering for recording or	
		upload Upload of images or video	
		1' FEED CLEED LIEUTE LIEUTEC	
		clips: FTP, SFTP, HTTP, HTTPS, network share, and email Notification:	

	1	'1 HEED HEED TO 1	1 i	
		email, HTTP, HTTPS, TCP, and		
		SNMP trap PTZ: PTZ preset, guard		
		tour Overlay text, day/night mode WDR mode IR illumination		
5.18	Casina	WDR mode IR illumination		
	Casing	VDCC/VDCT NVTAA AV	T 1	
5.18.1		IP66/IP67 or NEMA 4X-, and IK10-		
7. 10	G	rated casing		
5.19	Sustainability	7776		
5.19.1		PVC free		
5.20	Memory			
5.20.1		1024 MB RAM, 512 MB Flash		
5.21	Power			
5.21.1		PoE IEEE 802.3af/802.3at Type 1		
		Class 3		
		Typical: 7.7 W, max 12.95 W		
5.22	Connector			
5.22.1		Shielded RJ45 10BASE-T/100BASE-		
		TX/1000BASE-T		
		3.5 mm mic/line in Terminal block for		
		1 supervised alarm input and 1 output		
		(12 V DC output, max. load 25 mA)		
5.23	IR illumination			
5.23.1		Optimized IR with power-efficient,		
		long-life 850 nm IR LEDs		
		Range of reach 40 m or more		
		depending on the scene		
5.23.2		The camera shall be equipped with		
		built-in IR LEDs with automatic		
		seamless adapting angle of		
		illumination and intensity.		
5.24	Storage			
5.24.1		Recording to network-attached storage		
		(NAS)		
5.25	Operating conditions			
5.25.1	Temperature	-40 °C to 60 °C		
5.25.2	Humidity	10–100% RH (condensing)		
5.25.3		Corrosion resistance standard		
5.26	Approvals			
5.26.1		EMC (Attached Vendor Certificate)		
5.26.2		Environment (Attached Vendor		
		Certificate)		
5.26.3		Safety (Attached Vendor Certificate)		
5.26.4		Network (Attached Vendor Certificate)		
5.27	Certificate/Compliance			
	S			

5.27.1		Shall have FCC, CE and UL	
		certificates	
5.27.2		Prevent any OEM manufacturer to	
		incorporate in their firmware, a method	
		for gaining access to any device	
		globally.	
5.28	MTBF		
5.28.1		> 40,000 Hr (Attached Vendor	
		Certificate)	
5.29	Manufacturer		
	Authorization Letter		
	(MAL)		
5.29.1	(MAL)	MAL shall be submitted	
5.29.1 5.30	(MAL) Warranty	MAL shall be submitted	
		MAL shall be submitted shall have 3 years Comprehensive	
5.30			
5.30		shall have 3 years Comprehensive	

6 - Industrial Network Switches & Accessories

	Item Description	Requirement	Compli	Remark
			ance	s/
			(yes/no)	deviatio
				n
6	Product Data			
6.1	Item Type	Industrial Network Switches & Accessor	ries	
6.1.1	Brand			
6.1.2	Model			
6.1.3	Country of origin			
6.1.4	Country of manufacture			
6.2	Port Density & Redundancy			
6.2.1	Gigabit Port	Minimum 4 × 10/100/1000 Mbps RJ45 ports		
6.2.2	SFP Ports (with	Minimum 4 × 1G SFP ports. Bidder		
	transceivers)	must supply SFP transceivers for		
	•	single-mode and multi-mode fiber as		
	N G	required.	D 11 TO	
		cations are beyond the PoE limit of UT for these long-distance connections.	r cables. Fil	oer
6.3	PoE Standard	or mese rong-uistance connections.		
6.3.1	HPoE Port	At least 2 ports must support IEEE 802.3bt (High Power PoE)		
6.3.2	IEEE 802.3af/at	All ports must support simultaneous		
	Support	PoE under IEEE 802.3af/at or better		
6.4	Stacking Option			

/ A 4	•	
6.4.1		Minimum 2 units in a stack/Virtual
6.5	RAM	stack or better
	KAN	W ICD
6.5.1		Minimum 1GB
6.6	Switching Capacity	
6.6.1		24 Gb or better
6.7	Quality of Service	
6.7.1		Support for Egress rate limiting, eight
		egress queues per port, Voice VLAN,
		DSCP for IP-based QoS, Differentiated services architecture,
		IEEE 802.1p Class of Service with
		strict and weighted round Robin
		scheduling.
6.8	Protocol Support	
6.8.1		IGMP Snooping V1, V2, V3, ITU-T
		G.8032, IEEE 802.1s, IEEE 802.3ad/802.1AX Link Aggregation
		Control Protocol (LACP), Ipv4/Ipv6,
		DHCP Option 82, BPDU, STP Root
		Guard
6.9	Management	
6.9.1		SNMP V1, V2, V3, Web GUI, CLI,
		USB or equivalent memory card, IP v6
		management feature on open standards, IEEE802.1ag, TDM or
		equivalent standards
6.10	Security	
6.10.1		IEEE802.1x based port authentication,
6.11	Resiliency	
		IEEE802.1q, IEEE802.1d,
6.11.1		
6.11.1		IEEE802.1s, IEEE802.1w, ring
6.12	Enclosure Rating	IEEE802.1s, IEEE802.1w, ring resilience/ring protection
	Enclosure Rating	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade
6.12 6.12.1		IEEE802.1s, IEEE802.1w, ring resilience/ring protection
6.12	Enclosure Rating Operating Temperature	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade
6.12 6.12.1	Operating	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade
6.12 6.12.1 6.13	Operating	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating
6.12 6.12.1 6.13 6.13.1	Operating Temperature	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN
6.12 6.12.1 6.13 6.13.1 6.14	Operating Temperature	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC
6.12 6.12.1 6.13 6.13.1 6.14	Operating Temperature	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1	Operating Temperature Safety Certifications	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1	Operating Temperature	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1 RoHS standards NEMA –TS2
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1	Operating Temperature Safety Certifications Warranty	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1	Operating Temperature Safety Certifications	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1 RoHS standards NEMA –TS2
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1	Operating Temperature Safety Certifications Warranty Manufacturer	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1 RoHS standards NEMA –TS2
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1	Operating Temperature Safety Certifications Warranty Manufacturer Authorization	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1 RoHS standards NEMA –TS2 3 years Comprehensive warranty Manufacturer Authorization Letters
6.12 6.12.1 6.13 6.13.1 6.14 6.14.1 6.15 6.15.1 6.16	Operating Temperature Safety Certifications Warranty Manufacturer Authorization	IEEE802.1s, IEEE802.1w, ring resilience/ring protection IP 30 or equivalent Industrial Grade Rating -40°C to 75°C UL 508, UL 61010 EN 50021, EN 55032 ISA12.12.01,CSA22.2/213 IEC 60255-21-2, IEC 60255-21-1 RoHS standards NEMA –TS2 3 years Comprehensive warranty

6.17.1	Uniform Brand Requirement	Entire switching infrastructure must be of the same brand	
6.17.2	Gartner Recognition	Switch OEM must be listed in the Leaders quadrant of the Gartner Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure for the past 3 consecutive years	

7 - Storage Server/ Network Video Recorder

	Item Description	Requirement	Compli ance (yes/no)	Remark s/ deviatio n
7	Product Data			
7.1	Item Type	Storage Server/ Network Video Recorder	r	
7.1.1	Brand			
7.1.2	Model			
7.1.3	Country of origin			
7.1.4	Country of manufacture			
7.2	Network Interface			
7.2.1		Dual Gigabit Ethernet		
7.3	Data throughput			
7.3.1	Recording Throughput	Up to 920 Mbit/sec (or higher)		
7.3.2	Scalability	Unlimited scalability with additional storage array units		
7.4	System			
7.4.1	Operating System	Embedded Linux/Windows on solid state memory		
7.4.2	System integration	SDK & open network protocol support for 3rd-party VMS		
7.4.3	Configuration	Over LAN via client application		
7.4.4	Management	Over LAN via VMS client or 3rd-party VMS client		
7.5	Capacity			
7.5.1	Required capacity	30-day full recording of 4MP @ 25fps (vendor must submit bandwidth and storage calculation)		
7.5.2	Redundancy	RAID 5 or RAID 6 (hardware-based preferred)		
7.5.3	Hot-swappable Drives	Minimum 8×3.5" bays, field replaceable		
7.5.4	RAID Controller	Hardware RAID with cache preferred		
7.6	Number of Channels			
7.6.1		64 (min), ONVIF S/T compliant		
7.7	Supported Codecs			

7.7.1		H.264, H.265, MJPEG]	
7.8	Recording Modes	111201, 111200, 11101		
7.8.1	Recording wodes	Continuous, Event, Scheduled		
7.6.1	ONVIE Cumpant	Continuous, Event, Scheduled		
	ONVIF Support	V D C1 C/DC VIAGANID	<u> </u>	
7.9.1		Yes, Profile S/T for VMS/NVR integration		
7.10	VMS Client	Integration		
7.10.1		Windows/Linux-based software GUI	<u> </u>	
7.10.1	Client Type	or browser client		
7.10.2	Installation	To be installed on operator		
,,,,,,,		workstations at local site and HQ		
7.10.3	User Access	Must support multi-user login with		
		role-based access and permission		
		control		
7.10.4	Live View &	Must support live viewing and		
	Playback	playback of multiple cameras from multiple sites, including timeline		
		scrubbing, search, and video export	/	
		features		
7.10.5	Analytics Access	Must support real-time and recorded		
		event viewing including loitering,		
7 10 1		intrusion, motion detection, and ANPR		
7.10.6	Storage Access	Must allow full access to live and		
		recorded footage from each site's NVR/storage server through the VMS		
7.10.7	Capacity Support	Must support managing video streams		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		from all site cameras with 30-day		
		recording retention at 4MP, 25fps. The		
		client must handle multiple concurrent		
F 11	MINOD	streams with minimal latency		
7.11	Mobile & Remote Ac		I	
7.11.1	Mobile Client	Official mobile client application must be available for iOS and Android. It		
	Support	should allow live view, playback, PTZ		
		control, alert viewing, and multi-site		
		switching via secure login.		
7.11.2	Secure Remote	Entry-Level Firewall or cloud-		
	Access Technology	assisted secure remote access		
		(encrypted channel)		
		System must support cloud-assisted		
		secure remote access for live viewing and playback without requiring public		
	7	IPs or manual port forwarding. Remote		
		access must work via outbound		
		connection from the device to a secure		
		cloud relay, allowing clients to connect		
		remotely using authenticated and		
		encrypted channels. Configuration must support remote access via unique		
		device identifiers, login credentials, or		
		QR code pairing for site registration.		
7.12	Failover NVR			
	(Failover NVR must l	be provided only at the Muturajawela T	erminal)	

7.12.1		Automatic switch-over within 30 seconds		
7.12.2		Full restoration of recording schedule and camera mappings		
7.12.3		Storage of video for the downtime duration		
7.12.4		Event logging and alert notification upon failover		
Note: Failov	er NVR is not required for t	the remaining branches. Bidder shall design an	nd quote accor	dingly.
7.13	Warranty			
7.13.1		Minimum 3 years comprehensive warranty for all hardware (NVRs, clients, accessories). The warranty must be backed by OEM.		

8 - Joystick Controller

	Item Description	Requirement	Complia nce (yes/no)	Remark s/ deviatio n
8	Product Data			
8.1	Item Type	Joystick Controller		
8.1.1	Brand			
8.1.2	Model			
8.1.3	Country of origin			
8.1.4	Country of manufacture			
8.2	Power			
8.2.1		Via USB interface		
8.3	Casing			
8.3.1		Polycarbonate ABS		
8.4	Operating Conditions			
8.4.1		0 °C to +60 °C (32 °F to 140 °F); Humidity: 10–85% RH (non-condensing)		
8.5	Approvals			
8.5.1		EN 55032 Class B, EN 55024, EN 61000-6-2, FCC Part 15 Subpart B Class B, RCM AS/NZS CISPR 32 Class B, ICES-003 Class B, VCCI Class B, EN/IEC/UL 62368–1, KC KN-32 Class B KN 35, EN 60529 IP20		
8.6	Functionality – Joystick			
8.6.1		Hall-effect joystick with three axis: X/Y for pan/tilt, Z for zoom. Deflection by square		

	1	T
		delimiter (±15° for XY, ±25°
		for Z)
8.7	Functionality – Hotkeys	
8.7.1		6 hotkeys with customizable functions
8.8	Functionality – Keypad	
8.8.1		Keys with customizable function
8.9	Functionality –	
	Jog Dial	
8.9.1		Shuttle operating angle 160°; 6 hotkeys with customizable function
8.10	Manufacturer Authorization Letter (MAL)	
8.10.1		MAL shall be submitted
8.11	Warranty	
8.11.1		Shall have 3 years. comprehensive warranty. The same shall be submitted on manufacturer's letterhead.

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF ENERGY

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS KPR/45/2025

BIDDING DOCUMENT (Volume 2)

Employer:

Chairman

Ceylon petroleum storage terminals limited

Oil installation

Kolonnawa

Engineer:

Engineering Manager

Ceylon petroleum storage terminals Limited

Oil installation

Kolonnawa

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Section VII (b) Form of Design and Technical Proposal

FORM OF DESIGN / TECHNICAL PROPOSAL

NAME OF CONTRACT: DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS. -KPR/45/2025

Section VIII (b)

Schedules-related to Design and Technical Proposal ("B" Schedules)

Schedule B1 - Comments and Suggestions on Employer's Requirements				
(Enclose this schedule in envelope marked, "Envelope 2-Design	and Technical Proposal")			
	1			
Bidders may include observations made on Employer's Requirements and any suggestions for consideration				

Schedule B2 - Contractor's Proposal					
(Enclose this schedule in envelope marked, "Envelope 2-Design and Technical Proposal") Sheet 1 of					

	envelope marked "Envelope 2 -	Design and Technical Proposal)
. Design Staff		
Name	Position	Task
3. Construction Manag	gement	
B. Construction Manag	gement Position	Task
		Task
		Task
		Task

Schedule B4 - Curriculum Vitae of Key Staff (To be submitted for each of key staff) (Enclose Curriculum Vitae in envelope marked, "Envelope 2 - Design and Technical Proposal") **Proposed Position:** Name of Staff: **Profession:** Date of Birth Membership in **Processional Societies: Key Qualifications:** Give an outline of staff member's experience most pertinent to tasks or assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations. Use about half a page. **Education: Employment Record: Certification:** I, the undersigned, certify that to the best of my knowledge and belief, the information is correct. Signature of staff Member Date

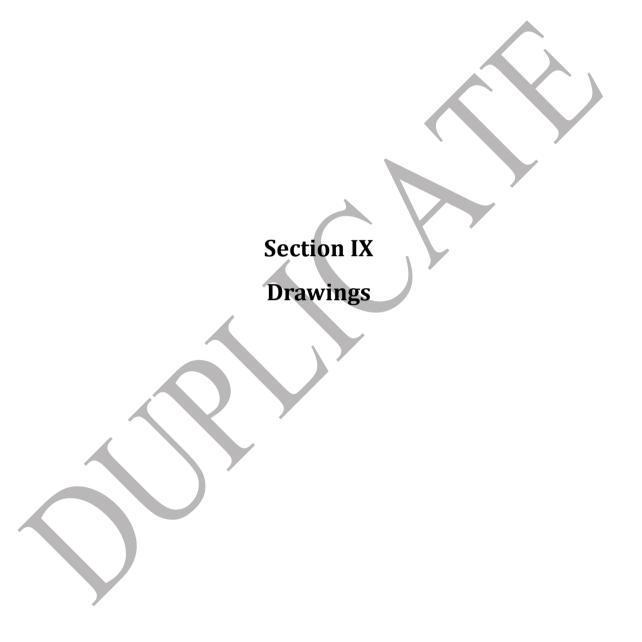
Schedule B5 - Time Schedule for Key Staff

(Enclose this schedule in envelope marked, "Envelope 2 - Design and Technical Proposal)

				Months (in the Form of a Bar Chart)														
Name	Position	Activities	1	2	3	4	5	6	MIOI	11115	(111 t	пет	01 111	01 a	Dai	Cità	111)	Number of
Name	Position	Activities	1	2	3	4	3	O										Months
								Y										
										,								

Full-time:															
	(Enclo	Schedu ose in	ile B6 envelop	- Wor e mark	k Prog ed, "En	ramme velope	(Desi 2 - Des	gn Rela sign and	ated Ac	ctivities nical Pr	s) oposal)				
	(1st, 2nd etc. are months from the Start Date)														
Design Activity	1st	2nd	3rd	4th	5th	6th									
									•						
) (
		1													

(enc)	Sch lose this			Vork Panyelope								oposal)		
,				•								,	eet 1 of	f
					(1st, 2	2nd etc	. are m	onths f	rom th	e Start	Date)			
Construction Activity	1st	2nd	3rd	4th	5th	6th								
)							
)								



Drawing List

Drawing Title	Drawing Number
) '

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF PETROLEUM RESOURCES DEVELOPMENT

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS KPR/25/2025

BIDDING DOCUMENT (Volume 3)

Employer:

Chairman

Ceylon petroleum storage terminals limited

Oil installation

Kolonnawa

Engineer:

Engineering Manager

Ceylon petroleum storage terminals Limited

Oil installation

Kolonnawa

May 2025

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Section VIII (.c)-Schedule Related to Price Proposal
(Schedule C1to C5)

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FORM OF PRICE PROPOSAL

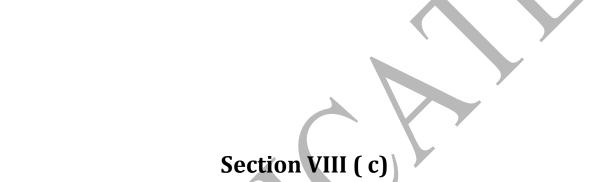
NAME OF CONTRACT: DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF CCTV SURVEILLANCE SYSTEM FOR MUTHURAJAWELA TERMINAL AND 10 BULK DEPOTS.- KPR/45/2025

To: Ceylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa, Wellampitiya.

We have examined the Conditions of Contract, Employer's Requirements, Schedules and Addenda Nos
We accept your suggestions for the appointment of the Adjudicator, * as set out in Bidding Data.
We agree to abide by this Bid until 25.11.2025 , and it shall remain binding upon us and may be accepted at any time before that date.
We confirm that, we (including all members of a joint venture and subcontractors) are not associated, directly or indirectly, with the consultant or any other entity in preparation of the design, specifications, and other documents for the Contract.
If this offer is accepted, we will provide the specified Performance Security, commence the Works as soon as reasonably practicable after the Commencement Date, and complete the Works in accordance with the above-named documents within the Time for Completion. We will ensure that Works will be executed in conformity with the Contract.
Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us.
We understand that you are not bound to accept the lowest offer or any other bid you may receive.
Signature of the persons duly authorized to sign documents for and on behalf of
Address:
Contact No: email:
Date :

st If the Bidder does not accept, this paragraph may be deleted and replaced with:

We do not accept your suggestion for the appointment of the Adjudicator. We have included our suggestion in the Bid, but this suggestion is not a condition of this offer. If this suggestion is not acceptable to you, we propose that the Adjudicator be jointly appointed in accordance with sub-clause 35 of the Instructions of Bidders.



Schedule-related to the Price Proposal ("C" Schedules)

Schedule C1 – Price Schedule

(enclose all price schedules in envelope marked, "Envelope 3 – Financial Proposal")

Sheet 1 of

Activity 1: Preliminaries

Item No:	Sub-activity description	Amount
		(Specify Currency)
1.1	Guarantees, Securities and Insurances	
1.2	Contractor's facilities	
		Y
	Any other Sub-activity (bidder to include)	
1.A1		
1.A2		
1.A3		
1.A4		
	Total for Activity 1 carried to summary	

Schedule C1 – Price Schedule

(enclose all price schedules in envelope marked, "Envelope 3 – Financial Proposal")

Sheet 2 of

Act	tivity	2:	Des	sign
110				

Item No:	Sub-activity description	Amount
	Sus don'ny desemption	
		(Specify Currency)
2.1	Surveying and Sub Surface Investigation	
2.2	Design of CCTV Surveillance System for Muthurajawela	
	Terminal and 10 Bulk Depots.	
		A
		Y
	Any other Sub-activity (bidder to include)	
2.A1		
2.A2		
2.A3		
2.A4		
	Total for Activity 2 carried to summary	

Schedule C1 – Price Schedule

(Enclose all price schedules in envelope marked, "Envelope 3 – Financial Proposal")

Sheet 3 of

Activity 3: Construction, Supplying & Installation

Item No:	Sub-activity description	Amount
•	V	
		(Specify Currency)
		T
		/
	Any other Sub-activity	
	(bidder to include)	
3.A1		
2.42		
3.A2		
3.A3		
-		

Total for Activity 3 carried to summary

Schedule C4 – Price Schedule

 $(enclose\ this\ schedule\ in\ envelope\ marked,\ ``Envelope\ 3-Financial\ Proposal")$

Sheet ... of

Summary

Activity No:	Activity description	Amount
NO:		(Specify Currency)
1	Preliminaries	
2	Design	
3	Construction, Supplying & Installation	
4		7
5		7
6		7
7		
8		
9		
	Any other activity (bidder to include)	
A		
В		
С		
	Sub Total	
	Discounts	
	Total	
	Amount carried to Form of Bid in Sri Lankan Rupees	
	(Total amount in above row to be converted to Sri Lankan	
	Rupees using the middle exchange rate of Central Bank of Sri Lanka as at 28 days before bid closing date)	
	Add VAT	
	Total inclusive of VAT	