

TENDER NOTICE

Sealed Bids are invited from Bidders i.e., firms, companies, suppliers, manufacturers or authorized agents /dealers/ distributors (JVs, if applicable) etc. engaged in trading, registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Punjab Sales Tax etc.) under head "Plant & Machinery":-

Sr. #	Name of Items	Qty	Per unit rate	Estimated Amount (in PKR)	Bid Security
1	Surveillance Kit	50	1,783,350	89,167,500	2,675,025
2	Body Camera	10	2,700,000	27,000,000	810,000
3	Control Room Solution	1	14,580,000	14,580,000	437,400
4	Armed Drone	1	16,200,000	16,200,000	486,000
5	IT Equipment / Solution for Command & Control Vehicle	1	22,338,000	22,338,000	670,140
6	IT Equipments / Solution for Interrogation Room	12	2,188,000	26,256,000	787,680
7	Driving Simulator	1	95,000,000	95,000,000	2,850,000
8	Walk Through Gate	24	2,000,000	48,000,000	1,440,000
9	Explosive Detector	6	14,500,000	87,000,000	2,610,000
10	Search / Flood Light	154	45,000	6,930,000	207,900

CONDITIONS

- All Bids must be accompanied by a Bid Security of the estimated price, as mentioned in the Table above, and in the form of CDR/Bank Guarantee / Demand Draft / Pay Order. Late Bids shall be rejected.
- The Bids shall be received as per single stage two envelope procedures. Sample of each item shall be mandatory except item having single quantity, which will be evaluated on either sample or brochure. Last date & time submission of technical sample is the date & time of bid opening.
- Each Item wise bid shall comprise a single package containing Technical and Financial (inclusive of all taxes) separate Bids, duly completed, signed, stamped, sealed and in complete conformity with Bidding Document should be dropped, in tender Box, placed at SSP/Admin, CTD Office as per following date & time:-

Bid Submission Date & Time	12.02.2024 till 11:00 AM
Bid Opening Date & Time (Tender would be opened in presence of bidders or their representatives)	12.02.2024 at 11:30 AM

- The bidding documents containing all terms & conditions, requirements, specifications, financial implications etc. can be obtained against written request from the office of SSP/Admn/CTD Punjab, CTD HQ opposite Jallo Park, Lahore by hand on the firm's letter head pad, on any working day during office hours. Bidding documents can be purchased immediately after the date of publication on production of challan form (32-A) of Rs. 1,000/- (for each item) deposited in Govt. Treasury under head CO-2642-Police-Others in the NBP / State Bank of Pakistan. In case of public holiday due to any reason, the date and time of receiving and opening the tenders will be considered the next working day. Counter Terrorism Department, Punjab will not be responsible for any cost or expense incurred by Bidders in connection with the preparation or delivery of Bids. In case of official holiday on the day of submission, next day will be treated as closing date. The Bidding document carrying all details can also be downloaded from PPRA website <http://www.ppra.punjab.gov.pk/>.
- Bids which are incomplete, not sealed, not signed and stamped, late or submitted by other than specified mode will not be considered.
- On acceptance of tenders, the bidders shall deposit performance guarantee **under PPRA Rules 2014, Section 56, Chapter VIII. @ 10%** of the total value of the contract in the form of bank guarantee in the name of the SSP/Admn, Counter Terrorism Department Punjab, Lahore and draw the contract agreements. Performance guarantee shall be refunded on successful completion of the contract.

4. (1) The SSP/Admin, Counter Terrorism Department Punjab, Lahore reserves the rights to reject all bids or proposals at any time prior to the acceptance of a bid or proposals **under Rules 35 of PPRA 2014.**
- (2) The procuring agency shall upon request communicate to any bidder, the grounds for its rejection of all bids or proposals, but shall not be required to justify those grounds.

Income/Sales tax registration certificate and other documents as mentioned in bidding document must accompany the Technical bids. Taxes will be deducted as per Government rules.



SSP/Admin

for Addl: Inspector General of Police,
CTD Punjab, Lahore
CTD HQ, opposite Jallo Park, Lahore
Tel: 042-99250757 Fax: 042-99250703-04

Tender Document No. 12/2023-24:

**Bidding Document of
Plant & Machinery**

Counter Terrorism Department, Punjab
SSP/Admn, CTD HQ, opposite Jallo Park, Lahore

DISCLAIMER

1. This request for bidding documents has been prepared by the Counter Terrorism Department, Punjab ("CTD")/ procuring agency. This request constitutes no commitment on the part of the CTD to enter into any arrangements with any bidder in respect of this proposed procurement or otherwise.
2. The information contained in these bidding documents or as may be subsequently provided to bidder (whether verbally or in documentary or any other form) by or on behalf of the CTD, on the terms and conditions set out in these bidding documents, are indicative only and are provided solely to assist in a preliminary assessment of the proposed procurement. Moreover, each Bid (including each lot- if any) shall be evaluated in accordance with the prescribed Technical/ Financial Criteria provided in the Bidding Documents.
3. These bidding documents do not constitute an agreement; its sole purpose is to provide interested bidders with information that may be useful for them in preparing their bids pursuant to these bidding documents.
4. These bidding documents may not be appropriate for all persons and it is not possible for CTD to consider the objectives and particular needs of each party, which reads or uses these bidding documents.
5. The assumption, assessment, statements and information contained in these bidding documents may not be complete, accurate and adequate or correct for the purposes of any or all bidders.
6. Each bidder shall, therefore, conduct its own due investigation and analysis, check the accuracy, adequacy, correctness, reliability and completeness of the assumption, assessments, statements and information contained in these bidding documents and seek independent professional advice on any or all aspects of these bidding documents, as deemed appropriate. However, CTD not under obligation to consider any such advice or opinion.
7. All information submitted in response to these bidding documents becomes the property of the procuring agency (CTD), including all business information and proprietary data submitted with all rights of communication and disclosures.
8. The CTD shall not be responsible for non-receipt or missing or delay of any correspondence/ bid etc., sent by the post / courier / email / fax by the bidder.
9. No decision shall be based solely based on the information provided for any statements, opinions or information provided in these bidding documents.
10. While submitting a proposal in response to these bidding documents, each bidder certifies that he/it understands, accepts and agrees to the disclaimers set forth above.
11. Nothing contained in any provision of these bidding documents, any statements made orally or in writing by the person or party/bidder/contractor shall have the effect of negating, or suspending any of the disclaimers set forth herein.
12. CTD reserves the right to withdraw it or cancel this bidding process or any part thereof, or to vary any of its term at any time during the completion of this process & Contract milestone or termination of such Contract signed between the successful Bidder & CTD without incurring any financial obligation in connection therewith.
13. CTD has also right to rectify any arithmetical or typo mistake at any time of this process.

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Section-I: Invitation to Bids

Sealed Bids are invited from Bidders i.e., firms, companies, suppliers, manufacturers or authorized agents /dealers/ distributors (JVs, if applicable) etc. engaged in trading, registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Punjab Sales Tax etc.) under head “Plant & Machinery”:-

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- Bids which are incomplete, not sealed, not signed and stamped, late or submitted by other than specified mode will not be considered.

6. On acceptance of tenders, the bidders shall deposit performance guarantee **under PPRA Rules 2014, Section 56, Chapter VIII. @ 10%** of the total value of the contract in the form of bank guarantee in the name of the SSP/Admn, Counter Terrorism Department Punjab, Lahore and draw the contract agreements. Performance guarantee shall be refunded on successful completion of the contract.
7. (1) The SSP/Admn, Counter Terrorism Department Punjab, Lahore reserves the rights to reject all bids or proposals at any time prior to the acceptance of a bid or proposals **under Rules 35 of PPRA 2014.**
(2) The procuring agency shall upon request communicate to any bidder, the grounds for its rejection of all bids or proposals, but shall not be required to justify those grounds.
Income/Sales tax registration certificate and other documents as mentioned in bidding document must accompany the Technical bids. Taxes will be deducted as per Government rules.

SSP/Admin

for Addl: Inspector General of Police,
CTD Punjab, Lahore.
CTD HQ, opposite Jallo Park, Lahore
Tel: 042-99250757 Fax: 042-99250703-04

Section-II: Instructions to Bidders (ITB)

Note: - All the procurement procedures shall be conducted in accordance with Punjab Procurement Authority Act-2009 and Punjab Procurement Rules-2014. In case of any conflict between the provision of this document and PPRA Act-2009/ PPRA Rules- 2014, the later shall prevail.

2.1 – Introduction		
2.1.1	Scope of Bid	The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the provision of Goods as specified in the Section-IV Bid Data Sheet (BDS) and Section III - Technical Specifications & Section VII- Schedule of Requirements. The successful Bidders will be expected to deliver, install/ commissioning the goods within the specified period and timeline(s) as stated in the BDS.
2.1.2	Source of Funds	The Procuring Agency named in the Bid Data Sheet has received budget from the Government of Punjab. The Procuring Agency intends to apply the provided funds/ a portion of this budget to make eligible payments under the contract for which the Invitation to bids has been issued.
2.1.3	Eligible Bidders	<p>(i) The Invitation to Bids is open to all suppliers i.e., association of firms/companies/sole proprietor/ general order suppliers, hereinafter called as "bidder" registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax etc.), except as provided hereinafter.</p> <p>(ii) Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consultancy services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation to Bids [if applicable].</p> <p>(iii) Government-owned enterprises may participate only if they are duly/legally authorized in this regard by the respective/relevant competent forum/authority.</p> <p>(iv) Bidders shall not be under a declaration of blacklisting by the Procuring Agency.</p> <p>(v) The invitation for Bids is open to all prospective firms / companies, Suppliers, Manufacturers or Authorized Agents / Dealers / Distributors subject to any provisions or licensing / regulatory requirements issued by the respective National/ Provincial Professional Statutory Body established for that particular trade or business as mentioned in bid data sheet.</p> <p>(vi) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be non-Responsive. A Bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if they:</p> <p style="margin-left: 20px;">a. Are associated or have been associated for the procurement of the goods to be purchased under this Invitation for Bids, directly or indirectly with a firm or any</p>

		<p>of its affiliates which have been engaged by the Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used.</p> <p>b. Have controlling shareholders in common; or</p> <p>c. Receive or have received any direct or indirect subsidy from any of them; or</p> <p>d. Have the same legal representative for purposes of this Bid; or</p> <p>e. Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or</p> <p>(vii) A Bidder may be ineligible if:-</p> <p>a. The Bidder is declared bankrupt or, in the case of company or firm, insolvent;</p> <p>b. Payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and dispose of its property;</p> <p>c. Legal proceedings are established against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;</p> <p>d. The Bidder is convicted, by a final judgment, of any offence involving professional conduct;</p> <p>e. The Bidder is debarred and blacklisted due to involvement in corrupt and fraudulent practices in accordance with the provision of section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.</p> <p>f. The Bidder is debarred and blacklisted in general (i.e., to the extent of all public procurement) due to consistent performance failure in accordance with the section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.</p> <p>g. The firm, supplier and contractor is blacklisted/ debarred by any international organization.</p> <p>(viii) Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.</p> <p>(ix) Not used</p> <p>(x) Not used</p>
2.1.4	Eligible Goods and Services	<p>(i) All goods and related services to be supplied under the Contract shall have their origin in eligible source countries, defined in the <i>Bid Data Sheet (BDS/Technical Specification)</i>, and all expenditures made under the contract will be limited to such goods and related services.</p> <p>(ii) For purposes of this clause, "origin" means the place where</p>

		<p>the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.</p> <p>(iii) The origin of goods and services is distinct from the nationality of the Bidder. In any case, the requirements of Rules 10 & 26 of PPR-14, shall be followed.</p>
2.1.5	Cost of Bidding	The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Procuring Agency named in the Bid Data Sheet, hereinafter referred to as "the Procuring Agency," will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.
2.1.6	One person one bid	<p>(i) As per Rule 36A of Punjab Procurement Rules 2014, a Bidder shall submit only one Bid in the same bidding process, either individually as a Bidder or any similar arrangement.</p> <p>(ii) No Bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.</p> <p>(iii) A Bidder, if acting in the capacity of sub-contractor in any Bid, shall not submit bid for the same.</p>
2.2 - The Bidding Documents		
2.2.1	Content of Bidding Documents	<p>(i) The goods required, Bidding procedures, and contract terms are prescribed in the Bidding documents. The Bidding documents, inter alia, include:</p> <ol style="list-style-type: none"> a. Invitation to Bids b. Instructions to Bidders (ITB) c. Technical Specifications d. Bid Data Sheet e. General Conditions of Contract (GCC) f. Special Conditions of Contract (SCC) g. Schedule of Requirements h. Bid Form i. Manufacturer's Authorization Form j. Bidder Profile Form k. General Information Form l. Affidavit m. Bid Security Form n. Technical Bid Form o. Contract Form p. Financial Bid Form / Price Schedule q. Performance Guarantee Form r. Check List <p>(ii) The Bidder is required to examine all instructions, forms, terms, and specifications in the Bidding documents. Failure to furnish all information as required by the Bidding documents or to submit a Bid not responsive to the Bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its Bid.</p> <p>(iii) In case of discrepancies between the Invitation to Bid and</p>

		<p>the Bidding Documents listed in ITB 2.2.1 (i) above, the said Bidding Documents, not in conflict with any provision of PPR-14, will take precedence.</p> <p>(iv) The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or from its website or website of PPRA. Re-confirming from the Procuring Agency that all pages/ contents have been properly and clearly received is the prime responsibility of the Bidder.</p>
2.2.2	Clarification of Bidding Documents	<p>(i) A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency in writing or by email at the Procuring Agency's address indicated in Invitation to Bid/ Tender Notice/ Advertisement. The Procuring Agency will respond in writing to any request for clarification of the Bidding documents which it receives no later than seven (7) days prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying) will be sent to all prospective Bidders that have received the Bidding documents.</p> <p>(ii) A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the BDS.</p> <p>(iii) The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than seven (7) days prior to the deadline for the submission of Bids. As prescribed in ITB 2.2.2 (i), above. However, this clause shall not apply in case of alternate methods of Procurement.</p> <p>(iv) Copies of the Procuring Agency's response will be uploaded on the website of procuring agency on given date and forwarded to identified Prospective Bidders through an expeditious identified source of communication, e.g.: e-mail etc., including a description of the inquiry, but without identifying its source.</p> <p>(v) Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB 2.2.3.</p> <p>(vi) If indicated in the BDS, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned in the BDS. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.</p>
2.2.3	Amendment of Bidding Documents	<p>(i) At any time prior to the deadline for submission of Bids, but not later than three (3) days before the closing date of the submission of Bid, the Procuring Agency, for any</p>

		<p>reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding documents by amendment. Any such change/amendment in the Bidding documents shall be provided in a timely manner, preferably through electronic means also, not later than three (3) days, and on equal opportunity basis as per Rule-25(3) OR Rule 25(4) of PPR-14 as the case may be.</p> <p>(ii) All prospective Bidders that have received the Bidding documents will be notified of the amendment in writing or by email, and will be binding on them. Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or pre-Bid meeting may modify the Bidding Documents by issuing addenda.</p> <p>(iii) Before the deadline for submission of Bids, the Procuring Agency for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or pre-Bid meeting may modify the Bidding Documents by issuing addenda.</p> <p>(iv) Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents and shall be communicated in writing or in any identified electronic form, e.g. email that secures record of the content of subject communication.</p> <p>(v) In order to allow prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of Bids, as per rule 29 of PPR-14, in the manner similar to the original advertisements, so as to avoid any inconvenience and to doubly ensure level playing field for all prospective bidders.</p>
2.3 - Preparation of Bids		
2.3.1	Language of Bid	The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in same language.
2.3.2	Bid Form	The Bidder shall complete the Bid Form and the appropriate Price Schedule (Financial Bid) furnished in the Bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.
2.3.3	Bid Prices	<p>(i) The Bidder shall indicate on form 8.10 the unit prices (where applicable) and total Bid price of the goods it proposes to supply under the contract.</p> <p>(ii) Prices indicated on the Price Schedule shall be item wise.</p> <p>(iii) The Bidder's separation of price components in accordance with ITB Clause 2.3.3(ii) above will be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency and will not in any way limit the Procuring Agency's right to contract on any of the terms offered.</p>

		(iv) Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A Bid submitted with an adjustable price quotation will be treated as non-responsive and may be rejected.
2.3.4	Bid Currencies	Prices shall be quoted in Pak Rupees unless otherwise specified in the Bid Data Sheet.
2.3.5	Documents Establishing Bidder's Eligibility and Qualification	<p>(i) Pursuant to ITB Clause 2.1.3, the Bidder shall furnish, as part of its Bid, documents establishing the Bidder's eligibility to Bid and its qualifications to perform the contract if its Bid is accepted.</p> <p>(ii) The documentary evidence of the Bidder's eligibility to Bid shall establish to the Procuring Agency's satisfaction that the Bidder, at the time of submission of its Bid, is eligible as defined under ITB Clause 2.1.3.</p> <p>(iii) The documentary evidence, of the Bidder's qualifications to perform the contract if its Bid is accepted, shall establish to the Procuring Agency's satisfaction:</p> <p>a. that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer [<i>Manufacturer's Authorization form No. 8.3</i>] or producer to supply the same in Pakistan;</p> <p>b. that the Bidder has the financial, technical, and production capability necessary to perform the contract;</p> <p>c. that, in the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and</p> <p>d. that the Bidder meets the qualification criteria listed in the Bid Data Sheet.</p>
2.3.6	Documents Establishing Goods' Eligibility and Conformity to Bidding Documents	<p>(i) Pursuant to ITB Clause 2.1.4, the Bidder shall furnish, as part of its Bid, documents establishing the eligibility and conformity to the Bidding documents of all goods and related services which the Bidder proposes to supply under the contract.</p> <p>(ii) Not used</p> <p>(iii) The documentary evidence of conformity of the goods and services to the Bidding documents may be in the form of literature, drawings, data and shall consist of:</p> <p>a. a detailed description of the essential technical and performance characteristics of the goods;</p> <p>b. a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring Agency; and</p>

		<p>c. an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.</p> <p>(iv) For purposes of the commentary to be furnished, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or cataloguenumbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive.</p> <p>(v) Where a sample(s) is required by a procuring agency, the sample shall be:</p> <ol style="list-style-type: none"> a. submitted on the date, in the quantities, dimensions and other details requested in the BDS; b. carriage paid; c. received on, or before, the date mentioned in BDS; and d. Evaluated to determine compliance with all characteristics listed in the BDS. <p>(vi) The Procuring Agency may retain the sample(s) of the successful Bidder till the successful delivery of the goods. A Procuring Agency may reject the Bid if the sample(s):-</p> <ol style="list-style-type: none"> a. do(es) not conform to all characteristics prescribed in the bidding documents; and b. is/are not submitted within the specified time clearly mentioned in the Bid Data Sheet. <p>(vii) Where it is not possible to avoid using a propriety article as a sample, a Bidder shall make it clear that the propriety article is displayed only as an example of the type or quality of the goods being Bided for, and that competition shall not thereby be limited to the extent of that article only.</p> <p>(viii) Samples made up from materials supplied by a Procuring Agency shall not be returned to a Bidder nor shall a Procuring Agency be liable for the cost of making them.</p> <p>(ix) All samples, belonging to an unsuccessful Bidder may be kept by the Procuring Agency till thirty (30) days from the date of award of contract or exhaust of all the grievance forums (including those pending at Authority's Level or in some Court of Law).</p> <p>(x) Pursuant to the requirements as indicated in ITB 2.3.6, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.</p> <p>(xi) The Bidder shall also furnish a list giving full particulars, including available sources and current prices of goods, spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS following commencement of the use of the goods by the Procuring Agency.</p>
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		(xii) The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation attested by the embassy in country of manufacturer into English shall be attached to the original version.
2.3.7	Bid Security	<p>(i) The Bidder shall furnish, as part of its Bid, a Bid security in the amount specified in the Bid Data Sheet.</p> <p>(ii) The Bid security is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture Pursuant to ITB Clause 2.3.8. (vii).</p> <p>(iii) The Bid security shall be in Pakistan Rupees and shall be in one of the following forms:- "Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque valid for ninety (90) Days, beyond the validity of Bid, or until furnishing of the Performance Security, whichever is later".</p> <p>(iv) Any Bid not secured in accordance with ITB Clauses 2.3.8 (i) and (ii) may be rejected by the Procuring Agency as non-responsive.</p> <p>(v) Unsuccessful Bidders' Bid security will be discharged or returned as promptly as possible after due process pursuant to ITB clause 2.3.8 (ii) or along with unopened financial proposal as per rule 38(2)(a)(vii) of PPR-14, which shall take precedence.</p> <p>(vi) The successful Bidder's Bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 2.6.1, and furnishing the Performance Guarantee, pursuant to ITB Clause 2.6.2.</p> <p>i) The Bid security may be forfeited:</p> <ol style="list-style-type: none"> a. If a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or b. In the case of a successful Bidder, if the Bidder: <ol style="list-style-type: none"> i. Fails to sign the contract in accordance with ITB Clause 2.6.3; or ii. Fails to furnish Performance Guarantee in accordance with ITB Clause 2.6.2; or <ul style="list-style-type: none"> • If the blacklisting proceedings under Section-17A of PPRA Act, 2009 read with Rule-21 of PPR-14 are initiated and the bidder is declared blacklisted after due process of law.
2.3.8	Period of Validity of Bids	<p>(i) Bids shall remain valid for the period specified in the Bid Data Sheet after the date of Bid opening prescribed by the Procuring Agency. A Bid valid for a shorter period may be rejected by the Procuring Agency as non-responsive.</p> <p>(ii) In exceptional circumstances, the Procuring Agency may solicit the Bidder's consent to an extension of the period of validity (as per rule-28 of PPR-14). The request and the responses there to shall be made in writing (or by email). The Bid security provided under ITB Clause 2.3.8 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security. A Bidder accepting the request will not be required nor permitted to modify its Bid.</p>

2.3.9	Format and Signing of Bid	<p>(i) The Bidder shall prepare a Bid and shall authorize a person/ persons for signing, submission and further correspondence with Procuring Agency on behalf of bidder. Authority letter must be part of bid. However, in case of any issue bidder shall be responsible for all consequences.</p> <p>(ii) The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to bind the Bidder to the contract. All pages of the Bid, shall be signed and stamped by the authorized person.</p> <p>(iii) The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, shall be signed and stamped by the authorized person.</p> <p>(iv) Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.</p> <p>(v) The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid and to contract execution if the Bidder is awarded the contract.</p>
2.4 – Submission of Bids		
2.4.1	Sealing and Marking of Bids	<p>(i) As per Rule 24, the Bidder shall seal the original Bid.</p> <p>(ii) The inner and outer envelopes shall:-</p> <p>a. be addressed to the Procuring Agency at the address given in the Bid Data Sheet; and</p> <p>b. bear the title of procurement Activity indicated in the Bid Data Sheet, the Invitation to Bids (ITB) title and number indicated in the Bid Data Sheet, and a statement: "DO NOT OPEN BEFORE.... (Time and date)," <i>[to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.4.2.]</i></p> <p>(iii) The inner envelopes shall also indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared "late".</p> <p>(iv) If the envelope is not sealed and marked as required by ITB Clause 2.4.1 (i), the Procuring Agency will assume no responsibility for the Bid's misplacement or premature opening.</p> <p>(v) Not used</p> <p>(vi) Not used</p> <p>(vii) In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under:-</p> <p>a. Bidder shall submit his TECHNICAL PROPOSAL and FINANCIAL PROPOSAL in separate envelopes and</p>

		<p>enclosed in a single outer envelope.</p> <p>b. Bid shall be sealed and put in separate envelopes and marked as such.</p> <p>c. The envelopes will be put in one sealed envelope and addressed / identified as given in BDS.</p> <p>(viii) Not used</p> <p>(ix) If all envelopes are not sealed and marked as required by ITB 2.4.1 or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.</p>
2.4.2	Deadline for Submission of Bids	<p>(i) Bids must be received by the Procuring Agency at the address specified under BDS not later than the time and date specified in the Bid Data Sheet. Bids received through courier services shall not be entertained.</p> <p>(ii) The Procuring Agency may, at its discretion and as per rule 29 of PPR-14, extend this deadline for the submission of Bids by amending the Bidding documents in accordance with ITB Clause 2.2.2 & 2.2.3 in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.</p> <p>(iii) Bids shall be received by the Procuring Agency at the address specified under BDS no later than the date and time specified in the BDS.</p>
2.4.3	Late Bids	<p>(i) Any Bid received by the Procuring Agency after the deadline for submission of Bids prescribed by the Procuring Agency pursuant to ITB Clause 2.4.2 will be rejected and returned unopened to the Bidder.</p> <p>(ii) The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids.</p> <p>(iii) Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.</p>
2.4.4	Modification and Withdrawal of Bids	<p>(i) Not used.</p> <p>(ii) Not used.</p> <p>(iii) Not used.</p> <p>(iv) Not used.</p> <p>(v) Not used.</p> <p>(vi) Not used.</p>
2.5 - Opening and Evaluation of Bids		
2.5.1	Opening of Bids by the Procuring Agency	<p>(i) The Procuring Agency will open all Bids, in public, in the presence of Bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the place, on the date and at the time, specified in the BDS. The Bidders' representatives present shall sign a register/attendance sheet as proof of their attendance.</p> <p>(ii) Not used</p> <p>(iii) Not used</p> <p>(iv) Not used</p> <p>(v) Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total</p>

		<p>amount of each Bid, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.</p> <p>(vi) In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the BDS in the presence of Bidders` designated representatives who choose to attend and other parties with a legitimate interest in the Bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening.</p> <p>(vii) The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) the presence of a Bid Security, if required; and (c) Any other details as the Procuring Agency may consider appropriate.</p> <p>(viii) Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.</p> <p>(ix) No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to 2.4.3 (i).</p> <p>(x) The Procuring Agency shall prepare minutes of the Bid opening.</p> <p>(xi) The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record.</p> <p>(xii) Minutes of the Financial Bid Opening shall be recorded and uploaded by the procuring agency on its website or shared to all bidders through e-mail.</p>
2.5.2	Confidentiality	<p>(i) Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report in accordance with the requirements of rule 37 of PPR-14.</p> <p>(ii) Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its Bid.</p> <p>(iii) Notwithstanding ITB Clause 2.2.2 from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in</p>

		electronic forms that provides record of the content of communication.
2.5.3	Clarification of Bids	<p>(i) As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid including breakdown of prices to determine its reasonability. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.</p> <p>(ii) The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted. Whereas in case of Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of Bids should be sought in accordance with ITB Clause 2.5.6.</p> <p>(iii) The alteration or modification in the bid which in any way affect the following parameters will be considered as a change in the substance of a bid:</p> <ol style="list-style-type: none"> a) Evaluation & qualification criteria; b) Required scope of work or specifications; c) All securities requirements; d) Tax requirements; e) Terms and conditions of bidding documents. f) Change in the ranking of the Bidder <p>(iv) From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so in writing or in electronic forms that provide record of the content of communication.</p>
2.5.4	Preliminary Examination	<p>(i) The Procuring Agency will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.</p> <p>(ii) Arithmetical errors will be rectified on the following basis:</p> <ol style="list-style-type: none"> a. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the Supplier does not accept the correction of the errors, its Bid may be rejected, and its Bid security may be forfeited. b. If there is a discrepancy between words and figures, the amount in words will prevail. <p>(iii) Prior to the detailed evaluation, the Procuring Agency will determine the responsiveness of each Bid to the Bidding documents, pursuant to ITB Clause 2.5.5. For purposes of these Clauses, a responsive Bid is one which conforms to all the terms and conditions of the Bidding documents</p>

		<p>without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security (ITB Clause 2.3.8), Applicable Law (GCC Clause 30), Taxes and Duties (GCC Clause 32) & mandatory Registrations/Renewals will be deemed to be a material deviation. The Procuring Agency's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.</p> <p>(iv) If a Bid is not responsive, it will be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the non-conformity.</p> <p>(v) Prior to the detailed evaluation of Bids, the Procuring Agency will determine whether each Bid:</p> <ol style="list-style-type: none"> Meets the eligibility criteria defined in ITB 2.1.3 and ITB 2.1.4; Has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents; Has been properly signed; Is accompanied by the required securities; and Is responsive to the requirements of the Bidding Documents. <p>The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.</p>
2.5.5	Examination of Terms and Conditions; Technical Evaluation	<p>(i) The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.</p> <p>(ii) The Procuring Agency shall evaluate the technical aspects of the Bid submitted to confirm that all requirements specified in Section III-Technical Specifications, Section VII – Schedule of Requirements, and Evaluation Criteria as provided in BDS, have been met without material deviation or reservation.</p> <p>(iii) If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not responsive in accordance, it shall reject the Bid.</p>
2.5.6	Correction of Errors	<p>(i) Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows:-</p> <ol style="list-style-type: none"> If there is a discrepancy between unit prices and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which the total price as quoted shall govern and the unit price shall be corrected; If there is an error in a total corresponding to the addition or subtraction of sub-totals, the sub-totals shall prevail and the total shall be corrected; and

		<p>c. Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.</p> <p>d. Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.</p> <p>(ii) The amount stated in the Bid will be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors. The concurrence of the Bidder shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with ITB 2.3.8.</p>
2.5.7	Conversion to Single Currency	<p>As per rule 32(2) of PPR-14, to facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies as follows (if applicable):</p> <p>For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day, in case of holiday in State Bank of Pakistan on the day of opening financial bids, then previous working day's ex-change rates will prevail.</p>
2.5.8	Post-Qualification & Evaluation of Bids	<p>(i) In the absence of prequalification, the Procuring Agency will determine to its satisfaction whether the Bidder is qualified to perform the contract satisfactorily, in accordance with the evaluation criteria listed in BDS & pursuant to ITB Clause 2.1.3.</p> <p>(ii) The determination will take into account the Bidder's financial, technical, and production / supplying capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 2.3.6, as well as such other information required for eligibility/qualification expressed in Bid Data Sheet as the Procuring Agency deems necessary and appropriate.</p> <p>(iii) The Procuring Agency will technically evaluate and compare the Bids which have been determined to be responsive, pursuant to ITB Clause 2.5.5, as per Technical Specifications required.</p> <p>(iv) The financial evaluation of a Bid will be on the basis of form of Price Schedules/ Financial Bid Form 8.10 which must include clear cut instruction regarding item wise or package wise evaluation inclusive of prevailing taxes, duties, fees etc. (Evaluation will be carried out item wise)</p>
2.5.9	Contacting the Procuring Agency	<p>(i) Subject to ITB Clause 2.5.3, no Bidder shall contact the Procuring Agency on any matter relating to its Bid, from the time of the Bid opening to the time the evaluation report is made public i.e., 10 days before the contract is awarded. If the Bidder wishes to bring additional information or has</p>

		<p>grievance to the notice of the Procuring Agency, it should do so in writing.</p> <p>(ii) Any effort by a Bidder to influence the Procuring Agency during Bid evaluation, or Bid comparison may result in the rejection of the Bidder's Bid.</p>
2.5.10	Grievance Redressal	<p>(i) As per Rule-67 of PPR-14, Procuring Agency shall constitute a Grievance Redressed Committee (GRC) comprising of odd number of persons with proper powers and authorization to address the complaints. The GRC shall not have any of the members of the Procurement Evaluation Committee. The Committee may preferably have one subject specialist depending upon the nature of the procurement in addition to one person with legal background as per their availability to the Procuring Agency.</p> <p>(ii) Any Bidder feeling aggrieved can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the Bidding documents found contrary to provision of Rule 33, and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.</p> <p>(iii) Not used</p> <p>(iv) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his Bid may lodge a written complaint concerning his grievances not later than ten (10) days after the announcement of the Final evaluation reports. In case of single stage - two envelope bidding procedure any bidder feeling aggrieved from technical evaluation may file a grievance within five (05) days of announcement of the technical evaluation report. After completion of the technical evaluation process, the procuring agency shall immediately upload the technical evaluation report on the website of PPRA and Procuring Agency for obtaining/ receiving grievance petitions from the prospective bidders (if any).</p> <p>(v) In case, the complaint/grievance is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report. Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelope bidding procedure is adopted.</p> <p>(vi) The GRC shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.</p>
2.6 - Award of Contract		
2.6.1	Notification of Award	<p>(i) Prior to the expiration of the period of Bid validity, the Procuring Agency will notify the successful Bidder in writing by registered letter and by email to be confirmed in writing by registered letter, that its Bid has been accepted.</p> <p>(ii) The notification of award will constitute the formation of the Contract.</p> <p>(iii) Upon the successful Bidder's furnishing of the Performance Guarantee pursuant to ITB Clause 2.6.2 (i), the Procuring Agency will promptly notify each unsuccessful Bidder and</p>

		will discharge its Bid security, pursuant to ITB Clause 2.3.8 (v).
2.6.2	Performance Guarantee	<p>(i) Within fifteen (15) days of the issuance of notification of award from the Procuring Agency or as per the time mentioned in notification of award / purchase order / supply order, the successful Bidder shall furnish the Performance Guarantee in accordance with the Conditions of Contract, in the Performance Guarantee Form provided in the Bidding documents, or in another form acceptable to the Procuring Agency.</p> <p>(ii) Failure of the successful Bidder to comply with the requirement of ITB Clause (i) above or ITB Clause 2.6.3 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security along with other remedies available under PPR-14. After that, the Procuring Agency may decide to award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new Bids keeping in view the concept of value for money as defined under rule-2(ae) read with Principles of Procurement as enunciated in rule-4 of PPR-14.</p>
2.6.3	Signing of Contract/ Issuance of Purchase Order	<p>(i) At the same time as the Procuring Agency notifies the successful Bidder that its Bid has been accepted, the Procuring Agency will send the Bidder the Contract Form provided in the Bidding documents, incorporating all agreements between the parties or will issue the purchase order <i>[as the case may be]</i>.</p> <p>(ii) Under rule-63 of PPR-14, where the Procuring Agency requires formal signing of contract, within seven (07) days of issuance of the Contract Form, the successful Bidder shall sign and mention date of the contract and return it to the Procuring Agency.</p> <p>(iii) Where no such formal signing is required by the procuring agency, the procuring agency shall issue purchase order after the receipt of required performance guarantee, as per rule 55 of PPR-14.</p>
2.6.4	Award Criteria	Subject to ITB Clause 2.6.2, under rule-55 of PPR-14, the Procuring Agency will award the contract to the successful Bidder whose Bid has been determined to be responsive and has been determined to be the lowest evaluated Bid, provided that the Bidder has been determined to be qualified to perform the contract satisfactorily.
2.6.5	Procuring Agency's Right to Vary Quantities at Time of Award	The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, on the analogy of rule-59 (c)(iv) of PPR-14 (increase not more than 15%).
2.6.6	Procuring Agency's Right to Accept or Reject All Bids	<p>(i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders.</p> <p>(ii) The Bidders shall be promptly informed about the rejection of the Bids, if any</p>

		(iii) The Procuring Agency shall upon request communicate to any Bidder, the grounds for its rejection of all Bids or proposals, but shall not be required to justify those grounds.
2.6.7	Re-Bidding	If the Procuring Agency rejects all the Bids under rule 35, it may proceed with the process of fresh Bidding but before doing that it shall assess the reasons for rejection and may, if necessary, revise specifications, evaluation criteria or any other condition for Bidders.
2.6.8	Corrupt or Fraudulent Practices	<p>i) The Procuring Agency Bidders, Suppliers, and Contractors observe the highest standard of ethics during the procurement and execution of contracts.</p> <p>"Corrupt practices" in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009, which is as follows:</p> <p>"(d) "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:</p> <ol style="list-style-type: none"> i. Coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party; ii. Collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain; iii. Offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain; iv. Any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; v. Obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or

		<p>intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process.”</p> <p>ii) Blacklisting & Debarment:</p> <p>Blacklisted Bidders i.e. firms/companies/sole proprietor/ general order suppliers/ JVs etc. and those found involved in “Corrupt Practices” are not allowed to participate in bidding.</p> <p>Requirements & Procedure for Blacklisting & Debarment: As per S-17A of PPRA, Act, 2009:</p> <p>“17A. Blacklisting.– (1) A procuring agency may, for a specified period and in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor indulges in corrupt practice or any other prescribed practice.</p> <p>(2) The Managing Director may, in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of all or some of the procuring agencies for a specified period.</p> <p>(3) Any person, aggrieved from a decision of a procuring agency, may within prescribed period prefer a representation before the Managing Director.</p> <p>(4) A procuring agency or any other person, aggrieved from a decision of the Managing Director, may within prescribed period prefer a representation before the Chairperson whose decision on such representation shall be final.</p> <p>As per rule 21 of PPR-14:</p> <p>21. Blacklisting.–(1) A procuring agency may, for a specified period, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor has:</p> <p>(a) acted in a manner detrimental to the public interest or good practices;</p> <p>(b) consistently failed to perform his obligation under the Contract;</p> <p>(c) not performed the Contract up to the mark; or</p> <p>(d) indulged in any corrupt practice.</p> <p>(2) If a procuring agency debars a bidder or Contractor under sub-rule (1), the procuring agency:</p> <p>(a) shall forward the decision to the Authority for publication on the website of the Authority; and</p>
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		<p>(b) may request the Authority to debar the bidder or Contractor for procurement of all procuring agencies.</p> <p>(3) The Managing Director may debar a bidder or Contractor of any procuring agency from participating in any public procurement process of all or some of the procuring agencies for such period as the Managing Director may determine.</p> <p>(4) Any person aggrieved by a declaration made under rule 20 or a decision under sub-rule (1) of this rule may, within thirty days from the date of the publication of the information on the website of the Authority, file a representation before the Managing Director and the Managing Director may pass such order on the representation as he may deem fit.</p> <p>(5) Any person or procuring agency aggrieved by an order under sub-rule (3) or (4) may, within thirty days of the order, file a representation before the Chairperson and the Chairperson may pass such order on the representation as he may deem appropriate.</p> <p>(6) The mechanism or process for barring a bidder or Contractor from participating in procurement process of a procuring agency, procuring agencies and a representation under this rule is specified in the Schedule appended to these rules.</p> <p>As per Schedule appended with PPR-14:</p> <p style="text-align: center;">SCHEDULE</p> <p>see sub-rule (6) of rule 21</p> <p>BLACKLISTING MECHANISM OR PROCESS</p> <ol style="list-style-type: none"> 1. The procuring agency may, on information received from any resource, issue show cause notice to a bidder or Contractor. 2. The show cause notice shall contain: <ol style="list-style-type: none"> (a) precise allegation, against the bidder or Contractor; (b) the maximum period for which the procuring agency proposes to debar the bidder or Contractor from participating in any public procurement of the procuring agency; and (c) the statement, if needed, about the intention of the procuring agency to make a request to the Authority for debarring the bidder or Contractor from participating in public procurements of all the procuring agencies. 3. The procuring agency shall give minimum of seven days to the bidder or Contractor for submission of written reply of the show cause notice.
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		<ol style="list-style-type: none"> 4. In case, the bidder or Contractor fails to submit written reply within the requisite time, the procuring agency may issue notice for personal hearing to the bidder or Contractor/ authorize representative of the bidder or Contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if availed. 5. In case the bidder or Contractor submits written reply of the show cause notice, the procuring agency may decide to file the matter or direct issuance of a notice to the bidder or Contractor for personal hearing. 6. The procuring agency shall give minimum of seven days to the bidder or Contractor for appearance before the specified officer of the procuring agency for personal hearing. 7. The procuring agency shall decide the matter on the basis of the available record and personal hearing of the bidder or Contractor, if availed. 8. The procuring agency shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing. 9. The procuring agency shall communicate to the bidder or Contractor the order of debarring the bidder or Contractor from participating in any public procurement with a statement that the bidder or Contractor may, within thirty days, prefer a representation against the order before the Managing Director of the Authority. 10. The procuring agency shall, as soon as possible, communicate the order of blacklisting to the Authority with the request to upload the information on its website. 11. If the procuring agency wants the Authority to debar the bidder or Contractor from participating in any public procurement of all procuring agencies, the procuring agency shall specify reasons for such dispensation. 12. The Authority shall immediately publish the information and decision of blacklisting on its website. 13. In case of request of a procuring agency under para 11 or representation of any aggrieved person under rule 21, the Managing Director shall issue a notice for personal hearing to the parties and call for record of proceedings of blacklisting. The parties may file written statements and documents in support of their contentions. 14. In case of representation of any aggrieved person or procuring agency under rule 21, the Chairperson shall issue a notice for personal hearing to the parties and may call for the record of the proceedings. The parties may file written statements and documents in support of their contentions.
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		<p>15. In every order of blacklisting under rule 21, the procuring agency shall record reasons of blacklisting and also reasons for short, long or medium period of blacklisting.</p> <p>16. The Authority shall upload all the decisions under rule 21, available with it, on its website. But the name of a bidder or Contractor shall immediately be removed from the list of blacklisted persons on expiry of period of blacklisting or order of the competent authority to that effect, whichever is earlier.</p> <p>17. An effort shall be made for electronic communication of all the notices and other documents pursuant to this mechanism or process.”</p> <p>iii) Furthermore, Bidders must keep themselves aware of the provision stated in clause 5.4 and clause 24.1 of the General Conditions of Contract.</p>
2.6.9	<p>Framework Contract Modality (not applicable) Quantity and volume of the goods to be considered in mind</p>	<p>(i) While quoting the rate in a framework contract, the Bidder must consider the following facts:</p> <ol style="list-style-type: none"> a. Certain volume and quantity of the goods as prescribed in Bid Data Sheet. b. The Bidder have to maintain the rates of the goods for the whole financial year. c. The Bidder should quote the rate as per Price Schedule/ Financial Bid form. The bidder shall follow the prescribed format for financial bid as per financial bid form given in the bidding documents.

Section-III. Technical Specifications

(To be given on letter head pad duly signed and stamped by the bidder)

Sr. #	Item Name	Description (Minimum Specifications given by the procuring agency)	Offered specifications (Make & Model)
1.	LED 65"	Attached	-
2.	LED 98"	Attached	-
3.	Network Switch with 48POW power adapter	Attached	-
4.	Commercial Kitchen Appliances (complete set)	Attached	-
5.	Electro Hydraulic Clear Floor Two Post Lift (6000Kg)	Attached	-

Section-IV: BID DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB) Section II. Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

4.1. Introduction		
BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
4.1.1.	2.1.1	Name of Procuring Agency: COUNTER TERRORISM DEPARTMENT, PUNJAB The subject of procurement is: Items advertised and bid submitted Period for delivery of goods: Successful Bidder shall be required to provide all tendered items within four (04) weeks time or as mentioned in purchase order / contract from the date of signing of contract or issuance of purchase order. Commencement date for delivery of Goods: from the date of signing of contract or issuance of purchase order. Each item wise bid shall comprise a single package containing technical and financial (inclusive of all taxes & duties) separate bids.
4.1.2.	2.1.2	Financial year for the operations of the Procuring Agency: [2023-24] Name of Project/ Grant (Development or Non-Development): [Non-Development] Name of financing institution: Government of Punjab Name and identification number of the Contract: [N/A]
4.1.3.	2.1.3 (v)	Maximum number of members in the joint venture, consortium or association shall be: <i>[insert the number]</i> . J.V. form 8.2 should be followed. (NOT APPLICABLE)
4.1.4		Not Used
4.1.5	2.3.6 (iii)	Demonstration of authorization by manufacturer: (if required in technical specification) form 8.3 should be followed.
4.2. Bidding Documents		
4.2.1.	2.2.2	The address for clarification of Bidding Documents is as under: SSP Admin CTD HQ, opposite Jallo Park, Lahore
4.2.2.	2.2.2	Pre-Bid Meeting: N/A
4.2.3.	2.3.9	Bidding documents alongwith requisite documents to be completed and submitted in one original copy.
4.3. Bid Price, Currency, Language and Country of Origin		

4.3.1.	2.3.1	<i>Language of the Bid: English.</i> In case any other language than English is used the pertinent translation attested by the embassy in country of manufacturer into English shall be attached to the original version.
4.3.2.	2.3.4	The price quoted shall be fixed in PAK RUPEES inclusive of all applicable taxes and duties, on DDP destination basis.
4.3.3.	2.1.4 (ii)	Country of origin: <i>All eligible countries to do business in Pakistan by the law of Government of Pakistan.</i>
4.4. Preparation and Submission of Bids		
4.4.1	2.1.3	Eligibility / qualification criteria shall be followed as given in Bidding Document.
4.4.2	2.3.6 & 2.3.7	Not Used
4.4.3	2.2.2	Bid shall be submitted to: SSP Admin CTD HQ, opposite Jallo Park, Lahore
4.4.4	2.4.2	The deadline for Bid submission is: as given in advertisement
4.4.5	2.5.1	Time, date/ Month/ Year, and place for Bid opening: as given in advertisement.
4.4.6	2.6.2	Amount of Performance Guarantee is: <u>10% OF THE ACCEPTANCE / CONTRACT AMOUNT</u>
4.4.7	2.3.8	Not used Amount of bid security is :- 03% of estimated price of the tendered items
4.4.8	2.3.9	Bid validity period after opening of the Bid is: <u>One Hundred and Eighty (180) DAYS (extendable)</u>
4.4.9	2.3.9	Not used
4.4.9	2.3.6 (v)	INSTRUCTION FOR SAMPLE SUBMISSION The bidders have to deposit their sample(s) till the date of opening of the tender at CTD HQ, opposite Jallo Park, Lahore. In exceptional cases, it will be the sole discretion of the Procuring Agency SSP/Admn CTD HQ, Lahore, to grant extension in the period for depositing of samples, (on request of the firm/individual)
4.5. Opening and Evaluation of Bids		
4.5.1.	2.5.1	The Bid opening shall take place / day /date / time: As given in advertisement
4.5.2.	2.5.7	The currency that shall be used for Bid evaluation is: PAK RUPEES
4.6. Bid Evaluation Criteria:		
Bidding Procedure: Single stage two envelope procedure shall be applicable.		
Criteria for bid evaluation, lowest price offered by the technically qualified/ responsive bidder/ Contractor inclusive of all taxes if otherwise not provided.		
	2.5.8	Criteria to Bid evaluation is presented below:

4.6.1. Eligibility Criteria: (Mandatory Requirements): The bidder must comply with the following mandatory requirements and provide the required documentation. Only compliant bidders shall be considered for next stage i.e. Evaluation Criteria.

Sr. #	Detail	Points
1.	Original receipt for purchase of tender.	Required
2.	Copy of Incorporation Certificate with relevant Authorities. Legal Status of the bidder(s) such as (Incorporation Certificate (showing its location and the date of registration), Partnership Deed or Form C/D (whichever is applicable) Affidavit and any other valid supporting document in case of Sole Proprietorship).	Required
3.	Copy of valid Registration with Income Tax Department and valid Sales Tax Department.	Required
4.	Copy of valid Professional Tax Certificate	Required
5.	Affidavit (as per form 8.6) on non-judicial Stamp Paper of Rs. 100/: <ul style="list-style-type: none"> The firm is not blacklisted as per ITB 2.6.8(ii) and as per sub-rule (6) of rule 21 of PPR-2014. The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document found at any stage. They shall be blacklisted as per Rules / Laws. Affidavit for correctness of information. The firm comply with Section – III "Technical Specifications", and Section – VII "Schedule of Requirements" of the Bidding Document. 	Required
6.	Business History of supplying same / similar products in last 03 years.	Required
7.	Audited Financial Statement for the last three financial years. (Signed & stamped).	Required
8.	Active Tax Payer Status	Required
9.	Valid/Active NTN Certificate. Valid/active General Sales Tax Registration-GST certificate (Status = Active with FBR/Relevant Authorities)	Required
10.	Last 03 financial years Tax returns	Required
11.	Bid Security (3%) To be attached with technical proposal	Required
12.	Signed & stamped bidding document including all attachments (all type of appendices & statements)	Required
13.	Manufacturer/Authorization letter/dealer/supplier Please attach letter as proof, if mentioned in technical specifications.	Required

4.6.2. Evaluation Criteria

Sr. No.	Description	Marks	Total Marks
1	Bidder Profile, Experience & International Certifications if any.		
i.	Bidder Profile Minimum 03 years of operations from date of incorporation with relevant Government Authorities <ul style="list-style-type: none"> E.g.: two (2) marks for one (1) year experience may be awarded. Maximum marks may be awarded, if the firm has 05 years or more experience. 	10	40
ii.	Relevant Experience Similar assignments / supplies over last 05 years. 2 similar projects= 10 marks 3 similar projects = 15 marks 4 similar projects = 20 marks	20	

	No marks shall be awarded if the bidder has less than two similar projects. Purchase orders / supply orders / completion certificates must be attached, otherwise, no marks shall be awarded. *Similar Nature of Project means supply and provision of tendered item of Goods to public sector organizations.		
iii.	Value of Projects Capital Cost of similar projects / Supplies completed over last 05 years If the total value / supplies is equal to or more than the value of bid i.e. PKR [estimated cost] For one project= 5 marks may be awarded For two projects = 10 marks may be awarded Purchase orders / supply orders / completion certificates of * similar nature projects, must be attached, otherwise, no marks shall be awarded.	10	
2	Financial Position		
i.	Annual Turnover (last 03 years) If the total annual turnover indicated in audited Statement of last three years is equal or above PKR: [Est Cost*3.]then maximum allocated marks may be awarded. If total turnover during last three years is equal to estimated cost = 5 marks If total turnover during last three years is upto PKR [Est Cost*2]= 10 marks [Est Cost*3]= 15 marks Note: no marks shall be awarded if the firm has less annual turnover of last 03 financial years than estimated cost. Audited statement of last three financial years must be attached.	15	25
ii	Bank Balance / Credit Limit If bank balance / credit limit up-to 30 th June 2023 is equal to or more than estimate of current purchase, full marks may be awarded. Otherwise, the marks may be awarded as: $\frac{\text{Closing Balance or Credit Limit} \times 10}{\text{Estimate of Current Purchase}}$	10	
3.	Human Resource		
i.	Total HR strength of firm / company (Payroll of June 2023 mandatory) Following criteria shall be followed: $\frac{\text{Number of Employees} \times 20}{20}$ List of staff will be provided by bidder with necessary details (please attach payroll of June 2023 of employees as proof)	20	25
ii.	List of Technical Staff • Technical staff having Bachelor / Master's degree / Technical Qualification. • 01 marks for each technical staff. Please attach CVs with documents of technical staff.	05	
4.	Quality Certification issued by renowned Certificate Issuance Organization such as ISO Certification etc.	05	05

5.	Offices / infrastructure	05	05
	e.g.: List of offices at Number of offices of bidder = 01 mark for each office (maximum 5 marks) Required details are as under:- Complete address, ownership / rent agreement, years of office established on the same place. In case of missing information, no mark may be awarded.		
		Total	100
Only the Bids securing minimum 65% marks would be declared technically accepted. Moreover, laboratory test and or conformance to the specifications report is required for further stage. (If applicable and or required by Technical Evaluation Committee).			

4.7. Award of Contract

Sr. #	ITB Clause	Detail
1	2.6.5	Percentage for quantity increase or decrease is: FIFTEEN (15%) PERCENT (increase not more than 15%).
2	2.6.2	The Performance Guarantee shall be: 10% of the acceptance / contract amount
3	2.6.2	The Performance Security (or guarantee) shall be in the form of Bank Guarantee.

Note: Details of similar nature / relevant categories of items is mentioned at page No. 65 & 66.

Section-V: General Conditions of Contract

5.1	Definition	<p>In this Contract, the following terms shall be interpreted as indicated:-</p> <ol style="list-style-type: none"> a. "The Contract" means the agreement entered into between the Procuring Agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein. b. "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations. c. "The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Agency under the Contract. d. "The Services" means those services ancillary and related to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, maintenance & repair and other such obligations of the Supplier covered under the Contract. e. "GCC" means the General Conditions of Contract contained in this section. f. "SCC" means the Special Conditions of Contract. g. "The Procuring Agency" means the organization purchasing the Goods & Services, as named in SCC. h. "The Procuring Agency's country" is the country named in SCC. i. "The Supplier" means the Bidder or firm supplying the Goods and Services under this Contract. j. "The Project Site," where applicable, means the place or places named in SCC. k. "Day" means calendar day.
5.2	Application	<p>These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.</p>
5.3	Country of origin (where applicable)	<ol style="list-style-type: none"> (i) All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further elaborated in the SCC. (ii) For purposes of this Clause, "origin" means the place where the Goods were mined, grown, or produced, or from where the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product is obtained that is substantially different in basic characteristics or in

		<p>purpose or utility from its components.</p> <p>(iii) The origin of Goods and Services is distinct from the nationality of the Supplier. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.</p>
5.4	Standards	The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.
5.5	Use of Contract Documents and Information; Inspection and Audit by the procuring agency.	<p>(i) The Supplier shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.</p> <p>(ii) The Supplier shall not, without the Procuring Agency's prior written consent, make use of any document or information enumerated in GCC Clause 5.5.1 except for purposes of executing the Contract.</p> <p>(iii) Any document, other than the Contract itself, enumerated in GCC Clause 5.5.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Supplier's performance under the Contract if so required by the Procuring Agency.</p> <p>(iv) The Supplier shall permit the Procuring Agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the donors, if so required by the donors.</p>
5.6	Patent Rights	The Supplier shall indemnify the Procuring Agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring Agency's country.
5.7	Performance Guarantee	<p>(i) The successful Bidder shall furnish performance guarantee within fifteen (15) days of issuance of the notification of Contract award or as mentioned in performance guarantee letter in the amount specified in SCC/BidData Sheet & clause 2.6.2 of ITB.</p> <p>(ii) The proceeds of the Performance Guarantee shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.</p> <p>(iii) As per Rule-56 of PPR-14, the performance guarantee shall be denominated in the currency of the Contract acceptable to the Procuring Agency and shall be in one</p>

		<p>of the following forms:-</p> <p>a. a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring Agency's country, in the form provided in the Bidding documents or another form acceptable to the Procuring Agency; or</p> <p>b. Not used.</p> <p>(iv) The performance guarantee will be discharged by the Procuring Agency and returned to the Supplier not later than thirty (30) days following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.</p>
5.8	Inspections and Tests	<p>(i) The Procuring Agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring Agency requires and where they are to be conducted. The Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives nominated for these purposes.</p> <p>(ii) The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s) (if so, allowed by the Procuring Agency), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.</p> <p>(iii) Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring Agency.</p> <p>(iv) The Procuring Agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring Agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the Goods' shipment from the country of origin.</p> <p>(v) Nothing in GCC Clause 5.8 shall in any way release the Supplier from any warranty or other obligations under this Contract.</p>
5.9	Packing	<p>(i) The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and</p>

		<p>precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.</p> <p>(ii) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Procuring Agency.</p>
5.10	Delivery and documents	<p>(i) Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.</p> <p>(ii) Upon delivery, the Procuring Agency shall give receiving certificate to the supplier with the statement that, "completion certificate along with satisfactory report shall be issued after due Inspection as per clause-8 of GCC, which will enable the supplier to put up the bill".</p> <p>(iii) For purposes of the Contract, DDP trade term used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of <i>Incoterms</i></p> <p>(iv) Documents to be submitted by the Supplier are specified in SCC.</p>
5.11	Insurance	The Goods supplied under the Contract shall be delivered on DDP Destination Basis under which risk is transferred to the buyer after having been delivered, hence Insurance is sellers' responsibility.
5.12	Transportation	The Supplier is required under the Contract to transport the Goods to a specified place of destination within the Procuring Agency's country, including freight , insurance, and storage, as shall be specified in the Contract, and related costs shall be included in the Contract Price.
5.13	Incidental Services	<p>(i) The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:-</p> <ol style="list-style-type: none"> satisfactory performance for specified time/quantity on-site and/or supervision of on-site assembly and/or start-up of the supplied Goods; furnishing of tools required for assembly and/or maintenance of the supplied Goods; furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

		<p>e. training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.</p> <p>(ii) Prices charged by the Supplier for incidental services shall be included in the Contract Price for the Goods and shall not exceed:-</p> <p>a. the prevailing rates charged for other parties by the Supplier for similar services; and</p> <p>b. original price of goods.</p>
5.14	Spare Parts	<p>As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:-</p> <p>a. such spare parts as the Procuring Agency may choose to purchase from the Supplier, provided that this choice shall not relieve the Supplier of any warranty obligations under the Contract; and</p> <p>b. in the event of termination of production of the spare parts:</p> <ul style="list-style-type: none"> • advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and • Following such termination, furnishing at no cost to the Procuring Agency, the blueprints, drawings, and specifications of the spare parts, if requested.
5.15	Warranty	<p>(i) The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models selected by the Procuring Agency, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring Agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.</p> <p>(ii) This warranty shall remain valid as required in Section – III "Technical Specifications" after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, or as required in Section – III "Technical Specifications" after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.</p> <p>(iii) The Procuring Agency shall promptly notify the Supplier in writing of any claims arising under this warranty.</p> <p>(iv) Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable</p>

		<p>speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Agency.</p> <p>(v) If the Supplier, having been notified, fails to rectify the defect(s) within the period specified in SCC, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract/relevant provision of PPR-14 including Blacklisting.</p> <p>(vi) This warranty shall remain valid for at least twelve (12) months after supply of goods/items/services or after consumption of goods (if otherwise not provided in the bidding documents/contract) to and accepted at the final destination.</p>
5.16	Payment	<p>(i) The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.</p> <p>(ii) The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 5.10, and upon fulfillment of other obligations stipulated in the Contract.</p> <p>(iii) As per rule-62 of PPR-14, payments shall be made promptly by the Procuring Agency, but in no case later than thirty (30) days after submission of an invoice or claim by the Supplier, provided the work is satisfactory.</p> <p>(iv) The currency of payment is PAK RUPEES.</p> <p>(v) The successful bidder shall be paid by CTD against invoice for the goods delivered/services completed satisfactorily to the CTD and in case of Framework Contract, payment shall be made against each Purchase order after the satisfaction of CTD</p>
5.17	Prices	Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in SCC.
5.18	Change Order	<p>(i) The Procuring Agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 5.31, make changes within the general scope of the Contract, only if required for the successful completion of the job, in any one or more of the following:-</p> <ol style="list-style-type: none"> drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency; the method of shipment or packing; the place of delivery; and/or the Services to be provided by the Supplier. <p>(ii) If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract</p>

		shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Agency's change order. But, in no case, the overall impact of the change should exceed 15% of the contract cost and no provisions of PPR-14 should be violated.
5.19	Contract Amendments	Subject to GCC Clause 5.18, no variation in or modification of the terms of the Contract shall be made except by the mutual consent through written amendment signed by the parties. No variation in finalized brands/ makes/models shall be allowed except in special conditions where the manufacturer has stopped producing or suspended that model or the latest model of similar series or version has been launched by the manufacturer or non-availability due to international mergers of the manufacturers or similar unavoidable constraints.
5.20	Assignment	The Supplier shall not assign the whole of contract to anybody else. However, some parts of contract or its obligations may be assigned to sub-contractors with the prior written approval of the procuring agency.
5.21	Sub-contracts	(i) The Supplier shall notify the Procuring Agency in the Bid of all subcontracts to be assigned under this Contract. Such notification, in the original Bid or later, shall not relieve the Supplier from any liability or obligation under the Contract. (ii) Subcontracts must comply with the provisions of GCC Clause 5.20.
5.22	Delays in the Supplier's Performance	(i) Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements. (ii) If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing of the fact of the delay, Its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract. (iii) Except as provided under GCC Clause 5.25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 5.22.2 without the imposition of liquidated damages.
5.23	Liquidated Damages	Subject to GCC Clause 5.25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the

		<p>period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 24 along with other remedies available under PPR-14.</p>
5.24	Termination for Default	<p>(i) The Procuring Agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:-</p> <ol style="list-style-type: none"> a. if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to GCC Clause 5.22; b. if the Supplier fails to perform any other obligation(s) under the Contract; or c. if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract. For the purpose of this clause, corrupt practices will be defined as per Section-2 (d) of The PPR Act, 2009. "Corrupt practices" in respect of procurement process, shall be as given in S-2 (d) of PPR Act, 2009: d. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:- <ol style="list-style-type: none"> 1. coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party; 2. collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or

		<p>without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;</p> <ol style="list-style-type: none"> 3. offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain; 4. any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation; 5. obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process <p>(ii) In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 5.24.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.</p>
5.25	Force Majeure	<p>(i) Notwithstanding the provisions of GCC Clauses 5.22, 5.23, and 5.24, the Supplier shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.</p> <p>(ii) For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread</p>

		<p>conditions e.g: epidemics, pandemics, quarantine restrictions etc. from the purview of "Force Majeure".</p> <p>(iii) If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. Any difference of opinion concerning "Force Majeure" may be decided through means given herein below.</p>
5.26	Termination for Insolvency	The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.
5.27	Termination for Convenience	<p>(i) The Procuring Agency, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.</p> <p>(ii) The Goods that are complete and ready for shipment (if applicable) within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Goods, the Procuring Agency may choose:-</p> <ol style="list-style-type: none"> a. to have any portion completed and delivered at the Contract terms and prices; and/or b. to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.
5.28	Resolution of Disputes	<p>(i) After signing the contract or issuance of purchase order, The Procuring Agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.</p> <p>(ii) If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed and/or</p>

		arbitration as per rule 68 of PPR-14 and in accordance with Arbitration Act-1940.
5.29	Governing Language	The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.
5.30	Applicable Law	The Contract shall be interpreted in accordance with the laws of Punjab (Pakistan) unless otherwise specified in SCC.
5.31	Notices	(i) Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by any information technology mean for the time being in use and acceptable in ordinary course of business to the other party's address specified in SCC. (ii) A notice shall be effective when delivered or on the notice's effective date, whichever is later.
5.32	Taxes and Duties	Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods & Services to the Procuring Agency. In case of imposition of new taxes/duties or concession thereof after the deadlines for the submission of bids the effect thereof shall be borne or availed by the procuring agency as the case may be.
5.33	Contract Period	The Contract Period of this procurement shall be as per contract signed between the Procuring Agency and bidder starting from the date of issuance of notification of award, delivery, installation & commissioning of all Goods, till end of warranty period.

Section-VI.

Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the GCC is indicated in parentheses.

6.1	Definitions (GCC Clause 5.1)	<p>(i) GCC 5.1(g)—The Procuring Agency is: CTD HQ, opposite Jallo Park, Lahore</p> <p>(ii) GCC 5.1(h)—The Procuring Agency's country is: PAKISTAN</p> <p>(iii) GCC 5.1(i)—The Supplier is: to be filled by the contractor</p>
6.2	Country of Origin (GCC Clause 5.3)	[All countries and territories as indicated in Section IV, BDS, of the Bidding documents, if specified]
6.3	Performance Guarantee (GCC Clause 5.7)	<p>(i) GCC 5.7.1—As per rule 56 of PPR-14, the amount of Performance Guarantee, as a percentage of the Contract Price, shall be: 10% OF THE CONTRACT AMOUNT</p> <p>(ii) GCC 5.7.4—the Performance Guarantee shall be retained for to cover the Supplier's warranty obligations or defect liability period in accordance with Clause GCC 5.15.2</p>
6.4	Inspections and Tests (GCC Clause 5.8)	<p>GCC 5.8.6—Inspection and tests prior to shipment of Goods and at final acceptance areas per satisfaction of procuring agency.</p> <p>Physical inspection as per specifications at the time of delivery or bid submission in case samples are required and the samples/ delivered goods may be sent to any lab for its/ their test at the cost of the bidder/ contractor.</p> <p>Procuring Agency at any time during the contract period or within the warranty period may sent the received goods to any lab at the cost of the contractor/ bidder, if and when deems appropriate or receive any complaint about the validity/ genuineness of the received/ in use goods.</p>
6.5	Packing (GCC Clause 5.9)	GCC 5.9.2—[Where applicable, the Contractor must provide proper and adequate packaging in accordance with best commercial practice, to ensure that the Goods delivered to CTD will be free of damage. Packaging must be adequate to allow for rough handling during transit, exposure to extreme temperatures, salt and precipitation during transit and open storage, with consideration for the type of Goods and transportation mode. CTD reserves the right to reject any delivery that is deemed not to have been packaged adequately. Packing, marking and documentation (where required) shall comply with any requirements or instructions notified by CTD.
6.6	Delivery and Documents as per GCC Clause 5.10	GCC 5.10.3—upon shipment, the Supplier shall notify the Procuring Agency the full details of the shipment, including Contract number, description of Goods, quantity and usual

		<p>transport document. The Supplier shall mail the following documents to the Procuring Agency, if required:-</p> <ul style="list-style-type: none"> (i) copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount; (ii) original and two copies of the usual transport document (for example, a negotiable bill of lading, a non-negotiable sea waybill, an inland waterway document, an air waybill, a railway consignment note, a road consignment note, or a multimodal transport document) which the buyer may require to take the goods; (iii) copies of the packing list identifying contents of each package; (iv) insurance certificate (Where Applicable); (v) Manufacturer's or Supplier's warranty certificate; (vi) Where applicable (Pre shipment/ port/ Procuring Agency Delivery site, inspection certificate), issued by the Procuring Agency nominated inspection agency, and the Supplier's factory inspection report (Inspection type depends on the nature of procurement and volume of procurement); and (vii) Certificate of origin
6.7	Insurance as per GCC Clause 5.11	GCC 5.11.1— The Goods supplied under the Contract shall be delivered duty paid (DDP) under which risk is transferred to the buyer after having been delivered, hence insurance coverage is sellers' responsibility. Since the Insurance is sellers' responsibility, they may arrange appropriate coverage.
6.8	Incidental Services as per GCC Clause 5.13	<ul style="list-style-type: none"> (i) GCC 5.13.1—The Supplier may be required to provide any or all of the following services, including additional services, if required:- <ul style="list-style-type: none"> a. satisfactory performance for specified time/ quantity on- site and/or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods. (ii) Prices charged by the Supplier for incidental services shall be included in the Contract Price for the Goods and shall not exceed:-

		<p>a. the prevailing rates charged for other parties by the Supplier for similar services; and</p> <p>b. original price of goods.</p>
6.9	Spare Parts as per GCC Clause 5.14 (If required)	GCC 5.14.1—Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other spare parts and components shall be supplied as promptly as possible, but in any case, within six (6) months of placing the order and opening the letter of credit.
6.10	Warranty	(GCC Clause 5.15) as per technical specifications
	Warranty period and modification	<p>GCC 5.15.2—In partial modification of the provisions, the warranty period shall be as required in Section – III “Technical Specifications” from date of acceptance/satisfactory installation of the Goods or as required in Section – III “Technical Specifications” from the date of shipment (if applicable), whichever occurs earlier. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:-</p> <p>a. make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4,</p> <p style="text-align: center;">or</p> <p>b. pay liquidated damages to the Procuring Agency in case of failure to meet the contractual guarantees. The rate of these liquidated damages shall be (one-half (0.5) percent per week).</p> <p>GCC 5.15.4 & 5.15.5—The period for correction of defects in the warranty period is:-</p> <p>a. Free, on-site repair / replacement of defective / damaged parts and labor, as agreed by procuring agency and supplier.</p> <p>b. On site Replacement of such defective / damaged Goods will be provided, if repair of such Goods involves a durations as agreed by procuring agency and supplier.</p> <p>GCC 5.16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:-</p> <p>Payment for Goods supplied: as per rule-62 of PPR-14 Payment may be made in Pak. Rupees in the following manner:-</p> <p>a. Treasury Cheque, or</p> <p>b. Cross Cheque</p>
6.11	Prices (GCC Clause 5.17)	GCC 5.17.1—Prices shall be fixed and shall not be adjusted.
6.12	Liquidated Damages (GCC	(i) GCC 5.23.1—Applicable rate: one-half (0.5) percent per week

	Clause 5.23)	(ii) Maximum deduction: ten (10) percent of the Contract Price
6.13	Resolution of Disputes (GCC Clause 5.28)	GCC 5.28.2—The dispute resolution mechanism to be applied pursuant to GCC Clause 5.28.2 shall be as follows:- As per rule-68 of PPR-14, in the case of a dispute between the Procuring Agency and the Supplier, the dispute shall be referred for arbitration in accordance with the Arbitration Act 1940.
6.14	Governing Language (GCC Clause 5.29)	GCC 5.29.1—The Governing Language shall be: ENGLISH
6.15	Applicable Law (GCC Clause 5.30)	GCC 5.30.1-The Contract shall be interpreted in accordance with the laws applicable in the jurisdiction of the province of Punjab (Pakistan):
6.16	Notices (GCC Clause 5.31)	(i) GCC 5.31.1—Procuring Agency’s address for notice purposes: CTD HQ, opposite Jallo Park, Lahore (ii) Supplier’s address for notice purposes: (to be filled by the contractor)
6.17	Confidentiality	All information which comes into the Contractor’s possession or knowledge in connection with this Contract is to be treated as strictly confidential. The Contractor should not communicate such information to any third party without the prior written approval of CTD. The Contractor shall comply with CTD Data Protection guidelines/ rules/ policies in the event that it collects, receives, uses, transfers or stores any personal data in the performance of this Contract. These obligations shall survive the expiration or termination of this Contract and till further as CTD will direct.
6.18	Status of CTD	Nothing in this Contract affects the privileges and immunities enjoyed by CTD as an intergovernmental organization. The Contractor remains bound and liable there under and it shall be directly responsible to CTD for any faulty performance under the subcontract if allowed by CTD in writing.
6.19	Independent Contractor	The Contractor shall provide the goods/items under this Contract as an independent contractor and not as an employee, partner, or agent of CTD.
6.20	Final Clauses	This Contract will commence upon signature by both Parties if otherwise contrary not provided in the Contract or anywhere and shall remain enforced until completion of all obligations of the Parties under this Contract subject to completion certificate by the Procuring Agency

Section-VII.

Schedule of Requirements

Successful Bidder shall be required to provide all tendered items within four (04) weeks time or as mentioned in purchase order / contract from the date of signing of contract or issuance of purchase order.

Section-VIII: Sample Forms

Notes on the Sample Forms

1. The Bidder shall complete and submit with its Bid the **Bid Form** and **Price Schedules** pursuant to ITB Clause 2.2.3 & 2.3.4 and in accordance with the requirements included in the Bidding documents.
2. When requested in the Bid Data Sheet, the Bidder should provide the **Bid Security**, either in the form included hereafter or in another form acceptable to the Procuring Agency, pursuant to ITB Clause 2.3.8.
3. The **Contract Form**, when it is finalized at the time of contract award, should incorporate any corrections or modifications to the accepted Bid resulting from price corrections pursuant to ITB Clause 2.5.6 and GCC Clause 5.17, acceptable deviations e.g., payment schedule pursuant to GCC 5.16, spare parts pursuant to ITB Clause 2.3.6 & 2.3.7, or quantity variations pursuant to ITB Clause 2.6.5. The Price Schedule and Schedule of Requirements, deemed to form part of the contract, should be modified accordingly.
4. The **Performance Guarantee** and **Bank Guarantee for Advance Payment (if applicable)** forms should not be completed by the Bidders at the time of their Bid preparation. Only the successful bidder will be required to provide Performance Guarantee and bank guarantee for advance payment in accordance with one of the forms indicated herein or in another form acceptable to the Procuring Agency and pursuant to GCC Clause 5.7.3 and SCC 6.10, respectively.
5. The **Manufacturer's Authorization** form should be completed by the Manufacturer, as appropriate, pursuant to ITB Clause 2.3.6(iii).

8.1- Bid Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with the Financial Bid, in case of Single Stage Two Envelope Procedure]

Date: _____

To: *[name and address of Procuring Agency]*

Gentlemen and/or Ladies:

Having examined the Bidding documents including Addenda Nos. *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver *[description of goods and services]* in conformity with the said Bidding documents for the sum of *[total Bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to 10% of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to a Bid by this Bid for a period of *[number]* days from the date fixed to Bid opening under Clause 2.3.9 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed *(if required)*, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

[In case of single stage one envelope bidding procedure]

The Composition of our Bid is:

- a) Complete bidding document (without filling) signed and stamped by the bidder
- b) all the forms relevant to the technical and financial bids (clearly indicated on each form)
- c) All the required documents establishing eligibility of bidders/goods shall be made part of the bid.
- d) Any other document required by the procuring agency not inconsistent with PPR-14.

[In case of single stage two envelope bidding procedure],

The Composition of our bid consists on separate Technical and financial bids, detail of which is as follows:

Technical bid includes the following:-

- a) Complete bidding document (without filling) signed and stamped by the bidder
- b) All the forms relevant to the technical bid, to be reproduced on the letter head of the bidder as indicated on each individual form.
- c) Copy of bid security form along with copy of financial instruments i.e. Bank call-deposit (CDR) / Demand Draft (DD) / Pay Order (PO) or Banker's cheque] valid for 180 days (extendable), beyond the validity of Bid in the manner as prescribed on the bid security form **8.10**.
- d) Any other document required by the procuring agency not inconsistent with PPR-14.

Financial bid includes the following: -

- a) Original Bid form (as per **form 8.1 of** Bidding documents) on letter head of the firm, duly signed and stamped.
- b) Price schedule / financial form (as per **form 8.9**) to be reproduced on the letter head of the bidder duly signed and stamped.
- c) Original Bid security form (as per **form 8.10**) along with Original financial instrument i.e. Bank call-deposit (CDR) / Demand Draft (DD) / Pay Order (PO) or Banker's cheque] valid for 180 days (extendable), beyond the validity of Bid.
- d) *Any other document required by the procuring agency not inconsistent with PPR-14.*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of service provider	Amount and Currency
_____	_____
_____	_____
(if none, state "none")	

We understand that you are not bound to accept the lowest or any Bid you may

receive. Dated this __ day of 20__.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:-

Name and address of agent	Amount and Currency	Purpose of Commission or gratuity
_____	_____	_____
_____	_____	_____
(if none, state "none")	_____	_____

We understand that you are not bound to accept the lowest or any Bid you may receive. Dated this __ day of 20__.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

8.2 Bidder's JV Members Information Form (Not applicable)

{To be reproduced and signed & stamped by the lead partner and all JV members on their letter Pad, to be attached with Technical Bid in addition to the JV agreement}

{The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture}.

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4. <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Purchaser, in accordance with ITB 4.6.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

8.3- Manufacturer's Authorization Form (if applicable)

[To be signed and stamped by the Bidder and to be attached with Technical Bid]
[See Clause 2.3.6 (iii) of the Instructions to Bidders.]

To: *[name of the Procuring Agency]*

WHEREAS *[name of the Manufacturer]*, who are established and reputable manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]* do hereby authorize *[name and address of Agent]* to submit a Bid, and subsequently negotiate and sign the Contract with you against for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation to Bids.

[Signature for and on behalf of Manufacturer]

Note:

- a. *This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its Bid.*
- b. *This letter of authority is provided as a sample. However, the bidders can amend, as appropriate, to serve the purpose of required authorization as per the evaluation criteria in the Bidding Document.*

8.4- Bidder's Profile Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr.#	Particulars
1.	Name of the company:
2.	Registered Office:
	Address:
	Office Telephone Number:
	Fax Number:
3.	Contact Person:
	Name:
	Personal Telephone Number:
	Email Address:
4.	Local office if any:
	Address:
	Office Telephone Number:
	Fax Number:
5.	Registration Details:

a. Financial Statement Attachment/Income Tax Returns (Last 03 years)

b. Details of Experience (Last 03 Years)

(i)	Similar Project (Agency/Department)	Item Name
(ii)	Value of total Projects/Tenders/POs	Amount

c. Staff Detail and last month Payroll

8.5- General Information Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

	Particulars			
Company Name				
Abbreviated Name				
National Tax No.			Sales Tax Registration No	
PRA Tax No.				
No. of Employees			Company's Date of Formation	

*Please attach copies of NTN, GST Registration & Professional Tax Certificate

Registered Office Address		State/Province	
City/Town		Postal Code	
Phone		Fax	
Email Address		Website Address	

8.6- Affidavit

[To be printed on PKR 100 Stamp Paper, duly attested by oath commissioner. To be attached with Technical Bid]

Name: _____

(Applicant)

I, the undersigned, do hereby certify that all the statements made in the Bidding document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by employer if the Employer, at any time, deems it necessary.

The undersigned hereby authorize and request the bank, person, company or corporation to furnish any additional information requested by the *[name of Procuring Agency]* of the Punjab deemed necessary to verify this statement regarding my (our) competence and general reputation.

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *[name of Procuring Agency]*. The undersigned further affirms on behalf of the firm that:

- (i) The firm is not currently blacklisted by the Procuring Agency.
- (ii) The documents/photocopies provided with Bid are authentic. In case, any fake/bogus document was found at any stage, the firm shall be blacklisted as per Law/ Rules.
- (iii) Affidavit for correctness of information.
- (iv) *****omitted*****

[Name of the Contractor/ Bidder/ Supplier] undertakes to treat all information provided as confidential.

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company: _____

Date: _____

8.7- Performance Guarantee Form

To, *[name and address of the Procuring Agency]*

WHEREAS (Name of the Contractor / _____ Supplier)
_____ hereinafter called "the Contractor" has undertaken, in pursuance of "INVITATION TO BID FOR THE **"PROVISION OF _____"** procurement of the following:

1. [*Please insert details*].

(Here in after called "the Contract").

AND WHEREAS it has been stipulated by you in the Contract that the Contractor shall furnish you with a bank guarantee by a scheduled bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract; **AND WHEREAS** we have agreed to give the Contractor a Guarantee;

THEREFORE WE hereby affirm that we are Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract, and without cavil or argument, any sum or sums as specified by you, within the limits of _____

_____ (Amount of Guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until _____ day of _____, 20_____, or _____ [insert number of days] after the rectification of the Defects, whichever is later.

[NAME OF GUARANTOR]

Signature _____

Name _____

Title _____

Address _____

Seal _____

Date _____

8.8- Technical Bid Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr. No.	Item name	Brand name with Country of Manufacturer	Make & model	Quantity	Country of Origin	Specifications dimensions

Stamp & Signature of Bidder _____

8.9- Contract Form

THIS AGREEMENT made on the _____ day of _____ 2023 between *[name of Procuring Agency]* of *[country of Procuring Agency]* (hereinafter called "the Procuring Agency") on the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called "the Supplier") on the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and ancillary services, viz., *[brief description of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of *[contract price in words and figures]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract; and
 - (f) the Procuring Agency's Notification of Award.
 - (g) Contract agreement
 - (h) Complete Bidding document
 - (i) Purchase Order
3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and services and to rectify defects therein in conformity with all respects in accordance with the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the rectification of defects therein, the Contract Price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year mentioned above.

Signed, sealed, delivered by _____ the _____ (for the Procuring Agency)

Signed, sealed, delivered by _____ the _____ (for the Supplier)

8.10 - Financial Bid Form / Price Schedule

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Financial Bid]

Sr. No.	Item name	Specifications/ dimensions	Country of Origin	Brand name, make & model	Unit price (inclusive of all taxes & duties etc.)	Quantity	Total price (inclusive of all taxes & duties etc.)	Total price (in words)
Total price in figures								
Total price in words								

Total Bid value (against which a Bid shall be evaluated) in figure.

Total Bid value (against which a Bid shall be evaluated) in words.

Total Bid value (against which a Bid shall be evaluated) in figure. Total Bid value (against which a Bid shall be evaluated) in words.

Note:

- (i) In case of difference between unit price and total price, unit price shall "prevail" and total price shall be finalized accordingly. (Please refer ITB clause 2.5.6).
- (ii) In case of difference between amount in "words" and amount in "figures", amount in "words" shall be considered final.
- (iii) A bid not compliant to the taxes (as notified by the government) or excluding applicable taxes and duties shall straight away be rejected.
- (iv) Bid shall be evaluated separately item wise as mentioned in advertisement.

Stamp & Signature of Bidder _____

8.11 - Bid Security Form

**To be signed & stamped by the Bidder and reproduced on the letter head.
To be attached with Financial Bid**

We, (Name of bidder) (hereinafter called "the Bidder"), certify that we have submitted our Bid dated *[date of submission of Bid]* for the supply of *[name and/or description of the goods]* (hereinafter called "the Bid").

This guarantee will remain in force up to and including thirty (30) days after the period of Bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[Signature of the Bidder or its authorized representative]

Section IX- Check List

[To be signed and stamped and presented on Bidder's letter head pad]

The provision of this checklist is essential prerequisite along with submission of tenders (with technical proposal).

Sr. #	Detail	Responsive	Non-responsive
1	Original receipt for purchase of tender along with Standard Bidding Documents.		
2	03% Bid Security of estimated cost of articles / items given by the department. The Bid security must be submitted with technical proposal.		
3	All required samples (if demanded) have been submitted in <i>[name of the Procuring Agency]</i> sample store.		
4	Active Registration with Income Tax Authorities (National Tax Number NTN) at least three years old		
5	Copy of active Registration with Sales Tax Authorities (STRN)		
6	Copy of active Registration (Professional Tax Certificate)		
7	Bidder s JV Member information as per form 8.2 (if applicable)		
8	At least _____ of similar nature having similar cost or above have been performed / executed in public organization during last 03 years (certificate duly signed by gazetted officer attached).		
9	Technical Bid Form (as per form 8.8 of Bidding documents) on letter head of the firm duly signed and stamped.		
10	Financial Bid Form (as per form 8.10 of Bidding documents) on letter head of the firm, duly signed and stamped.		
11	Bid Security Form (as per form 8.11 of Bidding documents) on letter head of the firm, duly signed and stamped.		
12	Performance Guarantee Form (as per form 8.7 of Bidding documents) on letter head of the firm, duly signed and stamped.		
13	General Information Form (as per form 8.5 of Bidding documents) on letter head of the firm duly signed and stamped.		
14	Affidavit (as per form 8.6) on non-judicial Stamp Paper of Rs. 100/- (i) The firm is not currently blacklisted by the Procuring Agency. (ii) The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document look at any stage. They shall be black listed as per Rules / Laws. (iii) Affidavit for correctness of information. (iv) ****omitted*** Affidavit for correction of information Form (as per 8.5 form of Bidding documents) on letter head of the firm, duly signed and stamped.		
15	i. Work order / supply order / purchase order of previous relevant experience. ii. Company profile. Staff list along with location and address <i>[where applicable]</i> . iii. Income Tax Returns/Audited Financial Statement, National tax number Certificate, General Sale Tax Number Certificate (last 03 year). iv. Bidders profile Form (as per form of Bidding documents) on letter head of the firm, duly signed and stamped.		

Stamp & Signature of Bidder _____

ANNEXURE – A

Supply Order

From: The Additional Inspector General of Police,
CTD, Punjab, Lahore.

To M/S _____,

_____.

No. /CTD/L&P-II, Dated Lahore, the: /2023.

Subject: - WORK / SUPPLY / PURCHASE ORDER FOR ----- ITEMS.

Please refer to the subject cited above and your financial bid for the _____ items opened on _____ for financial year 2023-24.

2. Rate offered by your firm has been approved for the purchase of _____ by the Bid Opening Committee of CTD HQ, Lahore.

3. Please provide the following _____ items at _____, CTD HQ Lahore within (15) fifteen days after receiving of this work / supply order:-

Sr. #	Name of items	Specifications	Rate per unit	Qty	Amount
1					
Total amount					

4. It may please be ensured that all the _____ items should be according to specifications / samples. If any item of the work / supply is not according to the specifications / samples, the same will not be accepted and the bill thereof will also not be entertained.

5. You are also directed to furnish 10% of the performance guarantee of total amount of the bill as per PPRA Rules 2014, Section 56, Chapter VIII after receiving the supply / purchase order, please.

SSP/Admin,
for Addl. Inspector General of Police,
C.T.D Punjab, Lahore.



**OFFICE OF THE
ADDL: INSPECTOR GENERAL OF POLICE
COUNTER TERRORISM DEPARTMENT
PUNJAB, LAHORE**

ii. Purchase Order / Commitment Form

To: M/S _____

DDO Name:	SP/Admn, For Addl: IGP, CTD Punjab, Lahore	Purchase Order No. _____	/CTD/L&P-I
1 DDO Reference No.	LO-4071	Dated: _____	
2 Division / Department	CTD Punjab		

3	Contractor's reference	-----		
4	Contractor's Sales Tax No.	-----		
5	Indenter's Name & Address	-----		
6	Indenter's Indent No. & Date	-----		
7	Particulars of Stores			
ITEM	DESCRIPTION OF STORES SPECIFICATIONS	QUANTITY (IN UNITS)	RATE PER UNIT IN RS.	TOTAL VALUE IN RS.
	-----	-----	----- (including all taxes whatsoever)	(Rs. _____ only)
8	Name and Address of Consignee	SSP/Admn, CTD HQ, Lahore, on behalf of the Addl: Inspector General of Police, CTD Punjab, Lahore		
9	Dispatch Instructions	Free delivery to consignee's end		
10	Inspection Authority	Inspection Committee, CTD HQ, Lahore		
11	Technical Officer	SSP/Technical, CTD HQ, Lahore		
12	Packing & Marking	--		
13	Delivery Schedule	----- or earlier		
14	Place of Delivery	CTD HQ, opposite Jallo Park, Lahore		
15	Payment	100% Payment will be made through A.G. Punjab (Supply Section) Lahore on prescribed bill form against Inspection / receipt Certificate.		
16	Part Payment / Part Supply	Allowed.		
17	Warranty	-----		

18 SPECIAL INSTRUCTIONS

- a. The general and special conditions shall be the part and parcel of the contract
- b. The contractor should as per terms of the contract submit his bill on the prescribed bill form duly machine numbers. In case of any deviation from the above prescribed procedure, the payment office will not be responsible for any delay so caused
- c. The contractor is required to issue "Acknowledgement" immediately on receipt of Cheque from the payment officer. In case he fails to acknowledge the Cheque within 07 days, his subsequent payment will be held in abeyance.
- d. The contractor shall keep the consignee and inspection authority well informed with the supply position.
- e. Inspection Call should be sent at least two weeks before the date when the inspection is required, failing which actual date of inspection or two weeks after the receipt of the Inspection call, whichever is earlier, will be considered as the date of offering the stores for inspection.
- f. The contractor shall return within 3 days the receipt of the contract on the enclosed SLIP duly filled in and signed in token of having received the order.
- g. The contractor is required to send specimen signatures (in triplicate) of their authorized representative who is competent to sign the bills and receive payment on their behalf for onward transmission to Audit Officer

SSP/Intelligence
CTD HQ, Lahore

AD/Admn
CTD HQ, Lahore

OS/Procurement
CTD HQ, Lahore

OS/R&A
CTD HQ, Lahore

Ex-Project Development Specialist
CPO, Lahore
(Co-Opted Member)

duly attested by the Purchase Officer to enable the Audit Office to verify if payment has been received by an authorized representative of the contractor. The change of the contractor's representative authorized to sign bills and receive payments, etc. should be promptly reported by the contractor to the Audit Office as well as to the purchase officer failing which the entire responsibility for wrong payment will lie on the contractor.

- h. Suppliers should note that if the stores inspected and released by the Inspection authority are rejected by the consignee or actual user / consumer then the same shall be re-inspected. Re-inspection of such stores by the Inspection Authority shall be in the presence of supplier's representative. If it is concluded that rejection is justified in term and conditions of contract, stores shall stand rejected and shall be replaced by the contractor at his own risk and cost, failing which the stores shall be purchased at his risk and expense.

i. **Liquidated Damage.**

The delivery period is essence of the contract. Liquidated damages will be imposed as per terms & conditions mentioned in the bidding documents. If the contractor fails to adhere to the delivery schedule and intends to seek extension thereof, it will be the sole discretion of the procuring agency either to grant or refuse extension in delivery period, on the basis of justification/reasoning provided by the bidder. The question of refund of liquidated damages may be taken up with Senior Purchase Officer on the representations of the affected party and refund in full or part thereof, may be allowed on merits having regard to condoning circumstances obtaining in the case.

19

SECURITY.

Bank Guarantee No. _____, dated _____ amounting to Rs. _____ (Rupees _____ only) as 10% performance guarantee has been obtained as security for successful completion of the contract. In case the contractor fails to execute the contract satisfactorily, the amount of security shall be forfeited including Black listing of the firm/individual. The procuring agency also reserves the right to purchase the material from elsewhere without any notice at the risk and cost of the defaulting contractor. Further the bidding documents shall part of contract.

Senior Superintendent of Police/Admn

For Addl: Inspector General of Police,
CTD Punjab, Lahore

Copy to:-

- 1 The Accountant General (Supply Section) Punjab, Lahore, through (S.V.O).
The cost of store is debitible under Head of Account **No. "PC21013-Police-032102-Provincial Police-LQ4590-CTD-_____ (head of account)" for the financial year 2023-2024.**

Copy of Bank Guarantee No. -----, dated ----- amounting to Rs. ----- is sent herewith.

The same will be released after successful completion of the contract.

- 2 Section Officer (Goods) Government of the Punjab, Finance Department, Lahore.
- 3 Inspection Authority:- Inspection Committee, CTD HQ, Lahore
- 4 Indenter:- SSP/Admn, CTD HQ, Lahore
- 5 Consignee:- SSP/Admn, CTD HQ, Lahore, on behalf of the Additional Inspector General of Police, CTD Punjab, Lahore

He should keep in touch with the Contractor to watch the supply of stores within the prescribed delivery period. On receipt of the store, he should return the copy No.10 of the Inspection Note to the Purchase Officer within seven days in token of having received the store, along with No demand Certificate. In case the store is not received by him within the stipulated delivery period, he should immediately inform to Senior Purchase Officer.

- 6 SP/Admn, DDO/CTD HQ on behalf of the Addl: IGP/CTD Punjab, Lahore (Accountant CTD HQ).
- 7 Commissioner, Income Tax, Lahore.
- 8 The Collector Sales Tax, Govt: of Pakistan, Collection of Sales Tax, Lahore.
- 9 Authentication Officer.
- 10 Copy to concerned office.

ANNEXURE – B

Similar nature projects / categories of items

Sr. No.	Category	Description of category
1	Appliances & electronics	Microwave Oven, Fridge, Coffee Maker, Coffee Machine, Water Dispenser, Refrigerator, UPS, batteries, LEDs, fans, air coolers, electric water cooler etc.
2	IT equipment & computer stationery	Printer, Paper Shredder, Key Board, Mouse, Wireless Mouse, Scanner, toners, USB, external hard drive, External Super drive, H.D.D Case, computer/laptop accessories, Internet routers, Internet Catchers, Display Connectors, Headphones, Power Cables, Data Cables etc.
3	Laptop & Desktop	Laptop, Desktop, tablets and mobiles
4	Network Devices	Network Switches, PoE Switches, Cat-6 Cable, AP Controller etc.
5	Security & Surveillance equipment	CCTV Cameras, Walk Through Gate, Emergency Alarm System, Fire Alarm, Smoke Detector, Barriers, Metal Detector, Hand Held Machine, Baggage Scanning Machine, jammers, UVSS, explosive detectors etc.
6	Generators	Generators alongwith engine, alternator, canopy, synchronization panel and switch over etc.
7	Air Conditioners	Air Conditioners (cabinet, split, floor standing) alongwith installation and complete accessories etc.
8	Furniture	Tables, Chairs, Sofas, Almirahs, Beds, Cabinets, Racks etc.
9	Software (purchase & repair)	Experience related to supply & repair of software etc.
10	Works items	Sliding gate, security cabins etc.
11	Firing Range equipment	Firing range equipment experience
12	Office Stationery	All kind of papers, photocopy toners, fax machine toners, all stationery articles, envelops etc.
13	Hardware Repair	RAMs, Internal Hard Drives, Power Supplies, Laptop Batteries, Screens, Mother Boards, Networking Connectors etc.
14	Transport Repair	All articles related to repair of transport, denting painting, tyres, batteries, poshish, canvas, engine overhauling etc.
15	Machinery repair	All articles related to repair of machinery i.e. photocopiers, fax machines, printers, Air Conditioners, UPS, printers, Generators, fans, water dispensers, room air coolers, electric water coolers, synchronizer panel etc.
16	Furniture Repair	All articles related to repair of furniture i.e. Tables, Chairs, Sofas, Almirahs, Beds, Cabinets, Racks etc.
17	Training Aid	All equipment / accessories related to training i.e. forensic kits, targets, muff cloth, target stands, target sheets etc.
18	Tent & Tarpal	Tent, Qanat, pipes, gullas, rope, jallar, hammer etc.
19	Services	Paint works, AC fitting (core cutting, cable & equipment laying), fiber cable (excavation, laying, splicing and back

		filling, installation / configuration of security cameras, installation plan / designing of security cameras, hiring of guest speakers for lectures (training purpose) etc.
20	Electronic Communications	Provision of internet services
21	Hot & cold commodities	Ice & cool etc.
22	Printing & Publication	Printing of different registers, forms & books i.e. red books, personal files, SOP books, stock registers, file covers etc.
23	Advertisement & Publicity	Floating of advertisements i.e. tenders for procurement of different articles, fixation of flaxes & banners for public awareness.
24	Fair & exhibition	Hiring of different articles for various official ceremonies i.e. lighting (electric ropes), banners, flaxes, flags, sound system etc.
25	Misc: articles (major)	Different misc: items i.e. search lights, iron racks, iron almirahs, bullet proof helmets & jackets, hesco bags etc.
26	Misc: articles (minor)	Different misc: articles required for daily routine work of offices i.e. cleanliness items, tissue papers, landscaping items, sanitary fittings etc.
27	Bed & Boxes	Kit boxes, nawar, kots, double bunkers etc.

Surveillance Kit

Sr#	Item	Description
1	Pen Camera	Covert Video recording through Pen
2	Button Camera	Covert Video recording through camera in shirt button.
3	Wi-Fi- Hat Camera	Covert Video recording through camera in hat with WIFI feature
4	Voice Recorder	Simple voice recorder
5	Battery Powered GPS Tracker	Magnetic Mini portable GPS tracker.
6	Mobile GSM Wireless Listening Device Mains Adapter Socket	Covert audio recording through camera in adopter of electric socket
7	Extreme Sound Amplifier Spy Ear Bionic Listening Device	Covert Long range audio listening /recording device. Distance 25m to 50m
8	Hardcase	Military grade Luggage Carrier

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- Accessories (if applicable) shall be the part of final consignment.

WiFi HAT CAMERA		
Sr	Parameter	Specification
1.	Product	1920x1080P Wi-Fi Hat IP P2P Hidden Camera
2.	Wi-Fi function	Yes
3.	Remote monitoring facility	By PC, by smart phone at any time anywhere
4.	Compatibility	iPhone, iPad, Android phone and other computer products
5.	Type	Mini Camcorders Audio Video Recorder
6.	Operation	Take Photo Function
7.	Video Resolution	1920x1080P HD
8.	Video format	AVI
9.	Recording frames	30 FPS
10.	White balance Adjustment	Auto
11.	Photo Resolution	2560*1440
12.	Photo format	JPEG
13.	Micro phone	Built- in(Synchronized recording of audio and video signals)
14.	Network Protocol	TCP/UDP, DDNS, UPNS, UPNP, HTTP, NTP
15.	Charging Voltage	5V DC
16.	Interface Type	Mini 5 pin USB
17.	USB Port	Standard 1.1/2.0 USB Port
18.	Battery capacity	Built- in 1000 mAh Lithium battery
19.	Charging Time	2 -3 hours
20.	Working Time	4 hours for video recording
21.	Support system	Window XP/Vista 7/8/8.1/10; Mac OS; Linux
22.	Memory	32 GB Micro SD Card

BUTTON CAMERA

Sr	Parameter	Specification
1.	Product	Button Camera
2.	Type	Mini Camcorders Audio Video Recorder
3.	Operation	Take Photo Function
4.	Support	Support recording while charging
5.	Video Resolution	1920x1080P or better
6.	Video format	AVI
7.	Recording frames	30 FPS or better
8.	White balance Adjustment	Automatic
9.	Photo resolution	4032x3024
10.	Photo format	JPEG
11.	Image sensor	1/4 CMOS Sensor or better
12.	Micro phone	Built- in (Synchronized recording of audio and video signals)
13.	Charging Voltage	5V DC
14.	Interface Type	Mini 5 pin USB
15.	USB Port	Standard 1.1/2.0 USB Port/C Type
16.	Battery capacity	Built- in 180 mAh Lithium battery
17.	Battery type	A + High capacity Polymer Lithium
18.	Charging Time	2 -3 hours
19.	Working Time	1.5 hours for video recording or better
20.	Colour	Black
21.	Support system	Window XPNista 7/8/8.1/10; Mac OS; Linux
22.	Memory	32/64 GB Micro SD Card

PEN CAMERA		
Sr	Parameter	Specification
1.	Product	Pen Camera
2.	Wi-Fi	Yes
3.	Mobile app	compatible with iOS and Android
4.	P2P support	Yes
5.	Video format:	AVI
6.	Video resolution	1080p FULL HD or better
7.	Shooting	30 fps or better
8.	Camera viewing angle	65°
9.	Motion detection	yes
10.	Photo resolution	4032x3024
11.	Photo format	JPEG
12.	Microphone	built-in
13.	Audio format	WAV
14.	USB port	micro USB or C Type
15.	Power supply	DC 5V 1A
16.	Battery	built-in, rechargeable with a capacity of 200mAh
17.	Battery life	up to 90 min or better
18.	Storage	Micro SD card support up to 128GB (not included) Dimensions: 14,7x1,9cm
19.	Package	1x Camera hidden in the pen 1x Micro USB cable/C Type 1x Tweezers 1x Manual

Battery Powered GPS Tracker		
Sr	Parameter	Specification
1.	Product	Battery Powered GPS Tracker
2.	GSM Frequency	850/900/1800/1900 MHZ
3.	LBS Positioning Accuracy	100-500m
4.	GSM Antenna	Built-in
5.	GPS Chipset	U-blox 7020
6.	GPS Sensitivity	-159 dBm
7.	GPS Frequency	L1, 1575.42 MHZ
8.	Channels	20 channels examine track
9.	GPS Positioning Accuracy	5-10m, 2D RMS
10.	GPS Antenna	Built-in
11.	Speed Accuracy	0.1m/s
12.	Time Accuracy	Synchronize with GPS
13.	Max Altitude	18000m
14.	Max Speed	515m/s
15.	Gravity Acceleration	<4g
16.	Working Current	60mA~80mA
17.	Operating Temperature	-20°C-70°C
18.	Humidity	5%-95%
19.	Sim card	Normal sim card
20.	PTA	Official approved
21.	Battery	Lithium polymer battery 4500mAh. Internal battery Standby 3 years

GSM Bug mains adaptor		
Sr	Parameter	Specification
1.	Product	Standard double plug adapter cleverly fitted with smart GSM module
2.	Mains power supply	input 200-240V AC
3.	Quad-band	GSM 850Mhz, 900MHz, 1800Mhz or 1900MHz
4.	Microphone	ported electret-condenser with FET amplifier
5.	Audio processor	built in digital sound processor
6.	System control	RISC based micro-controller
7.	GSM antenna	internal
8.	PTA	Official approved
9.	Unlimited surveillance distance	Dial in and listen from anywhere in the world.
10.	Main adapter	Fully functional UK double mains adapter – will power other devices from all sockets
11.	Audio capture distance	Audio capture distance for normal level speech of up to 8 meters (25 feet) radius.

Extreme Sound Amplifier Spy Ear Bionic Listening Device		
Sr	Parameter	Specification
1.	Product	Extreme Sound Amplifier Spy Ear Bionic Listening Device
2.	Magnification	8X
3.	Power supply	9 V battery (not included)
4.	Pot diameter:	200mm
5.	Package Including	1pc sound collector 1pc headphones 1pc English manual
6.	Suitability	Very suitable for studying birds and wild animals.
7.	Sound Detection	Sound detection of human conversations at a distance of 100 meters or more.
8.	Headphone	Pair of comfortable cushioned full-size headphones to reduce environmental noise.

DIGITAL VOICE RECORDER		
Sr	Parameter	Specification
1.	Product	Digital Voice Recorder
2.	Battery	Built-In Lithium Battery
3.	Software	PC Application Software(Sound Organizer)
4.	Headphones	Stereo Headphones
5.	USB Cable	Standard
6.	Carrying Case/Pouch	Standard
7.	Built-In Memory	16 GB
8.	Built-In Microphone	Stereo
9.	Calendar Search	Yes
10.	Playback Format	MP3/AAC/WMA/WAV
11.	Recording Format	Linear PCM/MP3
12.	Max. Recording Time	15 Hrs
13.	Max. Battery Time	15 Hrs
14.	Add/Overwrite Recording	NO
15.	Noise Cut	Yes (Clear Voice)
16.	Protect	Yes
17.	Track Mark	Yes
18.	Accessories	PC Application Software(Sound Organizer) ; Stereo Headphones; Carrying Case/Pouch; USB Cable

HARDCASE		
Sr	Parameter	Specification
1.	Product	Lightweight Military Grade Hardcase Luggage Carrier
2.	Latches	Patented Latches
3.	Handles	Rubberized Handles
4.	Dust & Water Proof	IP67 Dust 7 Water Proof
5.	Air Valve	Automatic air valve
6.	Strength	Lockable, Steel pin Hinge, Stackable
7.	Interior	Customizable Foam
8.	Size	Customized for 09 items: <ul style="list-style-type: none"> ➤ Wi-Fi Hat Camera ➤ Button Camera ➤ Pen Camera ➤ Battery Power GPS Tracker ➤ Body Cam ➤ GSM Bug Main Adapter ➤ Extreme Sound Amplifier Spy Ear ➤ Bionic Listening Device ➤ Digital Voice Recorder

Body Cam		
Sr	Parameter	Specification
1.	Product	Body-Worn Camera System
2.	Field of View	130° Horizontal / 73° Vertical / 149° Diagonal
3.	MIL SPEC	MIL-STD-810G
4.	Humidity	MIL-STD-810G Method 507.5 Procedure II
5.	ESD	IEC61000-4-2, Level 2
6.	Ingress Protection (IP) Rating	IP 67
7.	Dust Resistance	IP6X (Dust tight)
8.	Water Resistance	(Submersion)-IPX7 (1 meter of water for 30 Min)
9.	GPS	GPS, Glonass
10.	Connectivity	Bluetooth v4.2 EDR/LE Wi-Fi 802.11b/g/n
11.	LTE	Cat-4 IoT, LTE bands: B2, B4, B5, B12, B13, B14, B25, B66
12.	PTA	Official approved
13.	LCD Top Display:	1.2" Monochrome LCD or better
14.	Tracking	Asset Tracking Internal NFC Tag
15.	Motion Detection	6 Axis Accelerometer, Gyroscope (hardware ready)
16.	Operating Temperature	-20°C to +60°C (-4°F to +140°F)
17.	Battery	Lithium Ion, field-swappable, rechargeable Continuous Operation 12hrs.
18.	Charging time	<4 hours
19.	Video Recording	Resolution 1920x1080 (1080p), 1280x720 (720p). 864x480 (480p) H.264
20.	Frames per second	30, 15, 10 and 5 fps (Configurable per agency)
21.	Storage	128GB
22.	Video Compression	H.264 High Profile Video Compression
23.	Camera	Bidirectional activation, DE warping Vertical DE warping (removes fisheye effect) Image sensor 1080p sensor with low light sensitivity (<0.1 Lux)
24.	Audio Recording	High Quality Audio 1 forward and 1 side pointing MEMS microphones to reduce wind noise
25.	License	Video Management Software License/support for 10 years

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- One year warranty from the date of installation / configuration / activation.
- Accessories (if applicable) shall be the part of final consignment.

CONTROL ROOM SOLUTION

SSP/Intelligence
CTD HQ, Lahore

AD/Admn
CTD HQ, Lahore

OS/Procurement
CTD HQ, Lahore

OS/R&A
CTD HQ, Lahore

Ex-Project Development Specialist
CPO, Lahore
(Co-Opted Member)

S. No.	Type	Specifications	QTY
1.	Video Wall with Control	Indoor FHD Video Wall (2 x 2) Diagonal 55" (16:9) Type Industrial level IPS LCD panel, suitable for continuous 24/7 operation, Backlight Direct LED Resolution 1920 x 1080 (FHD) Pixel Density 40dpi Bezel width 0.44mm (T/L/B/R) Backlight 500 cd/m ² Contrast Ratio 1100:1 Response Time 8ms Color Depth 10bit (1.07B) MTBF 50,000h Features Anti-glare panel, 3D Noise reduction, Picture splicing function and UHD Daisy chain, Infrared, RS232 dual mode Input Ports VGA(D-Sub)x1, DVI-Dx1, HDMIx2, DPx1, RS232x1, Audiox1, IRx1 (Up to 4K@60Hz signal input by DP IN) Output Ports DPx1, RS232x1, Audiox1 (Up to 4K@30Hz signal output by DP OUT interface) Power Supply AC100V~AC240V, 50/60 Hz Bracket Floor Stand Cabinet & Bracket for 55 inch (2 x 2) Accessories HDMI Cables, PDU etc with Complete Installation Ultra HD Controller/Decoder Standard 1.5U case Controller for Video Wall with Embedded processor with LINUX OS Video Input and output Ports 2 Ch HDMI, 2 Ch DVI-I Input (supports 4K collection) and 6 Ch HDMI Output or better Video Format H.265+/ H.265/ H.264/ MPEG4/ MPEG2/ MJPEG Audio Bi-directional Talk: 1 Pair 3.5mm jack, PCM/G711/AAC Total Video Decoding Ability Ultra-high decoding ability, Up to 128CH@D1 or better Features Splicing screens control for zoom/merge/roam/overlay, Supports Alarm 4ch/4ch Communication Interface 2 RJ45 network port (10M/100M/1000M), RS232, RS485 Screen split Supports up to 36 and free split Working environment -10 °C to +55 °C (14 °F to 131 °F) Warranty 1 Year	01
2.	MULTI-SCREEN SIT/STAND WORKSTATION	The workstations are equipped with electric height adjustment of the table top and screens, with the possibility of choosing between a single system. The	02

		<p>single system allows the height of the table top and the screens to be adjusted. These systems make it possible to adapt the height of the supervision station to each user and to promote the prevention of RSI by offering different working positions. Synchronised motors and anti-collision protection ensure safe adjustment of the legs.</p> <p>The table tops are also customisable and provide a comfortable space for users. The screen mounts are equipped with swivel and arm supports to create a seamless visual experience that can be adjusted to the user's viewing angle, allowing operators to be immersed in the screen.</p> <p>These sit/stand supervision workstations are equipped with a multitude of options that allow them to be adapted to any environment and any need. They have gantries and multi-directional stands, which can accommodate up to nine 30" screens.</p> <p>Cabling chains carry connectivity from the screens to the technical boxes, while the gantries are equipped with horizontal cable ducts to guide the cables to the vertical guide chains.</p> <p>Their table tops can be equipped with a variety of flush-mounted connector solutions, ranging from simple connection points to fully customised power strips.</p> <p>Their cable management system is particularly efficient, as cable guide chains accompany the raising and lowering of the stage and screens. They also allow the management of cables between the technical floor and the technical housing</p>	
3.	Tool Kit	<ul style="list-style-type: none"> • 6" Half Round File Md Amer • File Handle • 5" HD Diagonal Cutter • 6" Slip Joint Pliers • 6" Long Nose Plier w/cut • Lead Shear Full Flush Cut • 10" Groove Joint Pump Plier • 8" NE-Type Lineman Plier • High Leverage Cable Cutter 9-1/2 • 7" Groove Joint Pump Plier • Lead Free Solder Pack • Soldering Iron 60 Watt • Soldering Iron Cover • Elect. Scissors 100C • Screwdriver, Slotted 1/8x2" • Screwdriver, Phillips #0x2" • Dbl. Ended Nylon Screw starter 	02

		<ul style="list-style-type: none"> • Klein Cushion Grip SD • Klein Cushion Grip SD • Klein Cushion Grip SD • Klein Cushion Grip SD • Klein Cushion Grip SD • Klein Cushion Grip SD • Klein Cushion Grip SD • 7pc Nutdriver Set, SAE 3" Shank • 8" Adj. Crescent Wrench • 12" Adj. Crescent Wrench • 10" Vise Grip Pliers 10WR • BE 13pc Hex Key Set SAE • 15pc 3/8" Dr Socket Set • 8pc SAE Combo Wrench Set • Feeler Gauge, Inch • Torpedo Level w/ Magnet • Tape Measure 25ft • 13pc Drill Bit Set, HSS • T-Handle Reamer 130 • Rechargeable Flashlight • Inspection Mirror, Telescoping • Magnetic Pick-up Tool, Telescoping • Centre Punch 3/32" • Pin Punch 1/16" 75A • Pin Punch 1/8" 75C • Electrician's Knife • Utility Folding Knife • Medium Duty Hacksaw • 8oz Ball Pein Hammer • 6oz Soft Face Hammer • 15-in-1 Strip/Crimper • 10-20 AWG Wire stripper • GFI Receptacle Tester • CLC 32 Pocket Tool Roll • Small IDS Parts Box • Standard Tool Pallets (hard cases only) 	
4.	Professional Torque mini electric screwdriver	Power Source: Electricity Rated Voltage:110V/220V Frequency:50-60hz Max. Torque:600-1100rpm Weight:1kg Torque range(kgf.cm):5-35 No-load speed(rpm):600-1100 Machine screw():2.6-6.0 Tapping screw:2.6-6.0	10

5.	3.6V Mini Cordless Screwdriver Multi-Functional Screwdriver	Voltage: 3,6 V Battery: 1100mah lithium battery Speed: 150RPM Max torque: 2N.m ~5N.m Chuck size: 6,35mm(1/4 ") Plugin type: Micro USB Loading time: 3 ~5 hours Weight: 0,17 KG Features:1. Positive and negative rotation support: simply press the screw or screw to the screws with ease. 2. Dual working modes: If the screws are too tight, they can turn the screwdrivers manually. 3. Contains 11 pieces Magnetic bits: With 11 pieces different screwdriver bits meet the different requirements for their repair work. 4. Built-in battery: 3,6 V 1100mA lithium battery, easy and fast for charging via microusb interface. 5. Mini and compact design: Easy and comfortable to use for a long time, a good helper for repair operations. Package 11 *Electric screwdrivers1 *USB charger6*4mm small bits4*6,35mm long bits1*6,35mm converter1 *magnetic acid	10
6.	Electric drill	No-load speed: 1350 (rpm) Power type: rechargeable - lithium battery technology Power supply voltage: 21V Rated output power: 40-60 (W) Rated torque: 55 (n * m) Electric drill structure: pistol type Is the electric drill adjustable speed: dual speed Drill bit clamping method: drill chuck Handle structure: rear straight handle Frame Colors: Multi Colors Certificate: CE,UV 400,DROP BALL TEST,ISO9001 OEM/ODEM: Available Payment Methods: TT, L/C, Transportation/ Logistics: DHL, FEDEX, UPS, TNT, EMS, Air Cargo, Containers	5
7.	Safety Engineering Uniform Workwear	Marine Electrical Mechanical Engineer Uniform Workwear	10
8.	Printer All in One	As fast as 6.1 sec Resolution (black) Fine Lines (1200 x 1200 dpi) Resolution technology HP FastRes 1200, HP ProRes1200, Economode Monthly duty cycle Up to 80,000 pages Duty cycle is defined as the maximum number of pages per month of imaged output.	02.

		<p>Recommended monthly page volume 750 to 4,000</p> <p>Print Technology Laser</p> <p>Display 2.7" (6.86 cm) intuitive color touchscreen (CGD)</p> <p>Number of print cartridges 1 (black)</p> <p>Replacement cartridges HP 148A Black Original LaserJet Toner Cartridge (~2,900 pages), W1480A; HP 148X Black Original LaserJet Toner Cartridge (~9,500 pages), W1480X; HP W1020XC High Yield Black Contract Original LaserJet Toner Cartridge (~10,000) pages, W1020XC[4]</p> <p>Product disclaimer</p> <p>Print languages HP PCL 6, HP PCL 5e, HP postscript level 3 emulation, PDF, URF, Native Office, PWG Raster</p> <p>Paper trays, standard 2</p> <p>Paper trays, maximum 3</p> <p>Mobile Printing Capability</p> <p>Connectivity, standard 1 Front USB port; 1 Gigabit Ethernet 10/100/1000 Base-T network; 1 Hi-Speed USB 2.0 (host); 1 Wi-Fi 802.3az; 802.11b/g/n (2.4 GHz) Wi-Fi radio</p> <p>Security management Management security: SNMP v1 v2 v3, SSL/TLS (HTTPS), 802.1x authentication; wireless network security: WPA (Wi-Fi Protected Access) WPA2 WPA3, WEP encryption (64 and 128 bit), 802.1x authentication (EAP-PEAP, LEAP, EAP-TLS) with RADIUS servers</p> <p>Minimum system requirements 2 GB available hard drive space; Internet connection or USB port; Internet browser. For additional OS hardware requirements see apple.com; 2 GB available hard disk space; Internet connection or USB port; Internet browser. For additional OS hardware requirements see microsoft.com;</p> <p>Compatible operating systems Windows 11; Windows 10; Windows Client OS; Android; iOS; Mobile OS; macOS 10.15 Catalina; macOS 11 Big Sur; macOS 12 Monterey; macOS 13 Ventura; Chrome OS</p> <p>Memory, standard 512 MB</p> <p>Memory, maximum 512 MB</p> <p>Supported network protocols</p>	
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		<p>TCP/IP, IPv4, IPv6; Print: TCP-IP port 9100 Direct Mode, LPD (raw queue support only), Apple AirPrint™, Mopria, IPP Print; Discovery: SLP, Bonjour, Paper handling input, standard 100-sheet tray 1, 250-sheet input tray 2; 50-sheet Automatic Document Feeder (ADF) Paper handling output, standard 150-sheet output bin Duplex printing Automatic (default) Envelope input capacity Up to 10 envelopes Finished output handling Sheetfeed Media sizes supported Tray 1: Letter; Legal; Executive; Oficio (8.5 x 13 in); 16K; Japanese Postcard; Double Japan Postcard Rotated; Envelope #10; Envelope Monarch; Envelope B5; Envelope C5; Envelope DL; Custom Size; 4 x 6 in; 5 x 8 in; Statement; Tray 2 & Tray 3: Letter; Legal; Executive; Oficio (8.5 x 13 in); Custom Size; 5 x 8 in; Statement Media sizes supported Tray 1: A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Japanese Postcard; Double Japan Postcard Rotated; Envelope #10; Envelope Monarch; Envelope B5; Envelope C5; Envelope DL; Custom Size; 4 x 6 in; 5 x 8 in; Statement; Tray 2 & Tray 3: A4; A5; A6; B5 (JIS); Oficio (216 x 340 mm); 16K (195 x 270 mm); 16K (184 x 260 mm); 16K (197 x 273 mm); Custom Size; A5-R; 4 x 6 in; B6 (JIS) Media sizes, custom Tray 1: 3 x 5 to 8.5 x 14 in, Tray 2, 3: 4.12 x 5.83 to 8.5 x 14 in Media types Paper (plain, EcoEFFICIENT, light, heavy, bond, colored, letterhead, preprinted, prepunched, recycled, rough); envelopes; labels; Supported media weight Tray 1: 16 to 53 lb; tray 2, optional 550-sheet tray 3: 16 to 32 lb Media weights by paper path Tray 1: 60 to 200 g/m²; tray 2, optional 550-sheet tray 3: 60 to 120 g/m² Power 110-volt input voltage: 110 to 127 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz); 220-volt input voltage: 220 to 240 VAC (+/- 10%), 50/60 Hz (+/- 2 Hz) (Not dual voltage, product varies by part number with # Option code identifier) Power consumption</p>	
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		<p>510 watts (active printing), 7.5 watts (ready), 0.9 watts (sleep), 0.9 watts (Auto Off/Wake on LAN, enabled at shipment), 0.06 watts (Auto-off/Manual-on), 0.06 (Manual Off)Power requirements are based on the country/region where the printer is sold. Do not convert operating voltages. This will damage the printer and void the product warranty.</p> <p>Energy efficiency IT ECO Declaration; EPEAT® Silver registered; ENERGY STAR® certified</p> <p>Operating temperature range 50 to 90.5°F</p> <p>Operating humidity range 30 to 70% RH</p> <p>Warranty One-year Bench/Depot Repair</p> <p>Dimensions (W X D X H) 16.54 x 15.35 x 12.72 in</p> <p>Dimensions Maximum (W X D X H) 16.93 x 25 x 12.8 in</p> <p>Weight 27.78 lb</p> <p>Package weight 34.2 lb</p> <p>Original LaserJet Toner Cartridge; Getting Started Guide; Support Flyer; Warranty Guide; Regulatory Flyer; Power cord</p>	
9.	UPS with Battery	<p>Capacity 6 kVA / 6000 W 10 kVA / 10000 W</p> <p>INPUT</p> <p>Input wiring Single-phase three-wire (1Φ + N + PE)</p> <p>Rated voltage 208 / 220 / 230 / 240 Vac</p> <p>Voltage range "110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)"</p> <p>Rated frequency 50 / 60 Hz (auto-sensing)</p> <p>Frequency range 40 ~ 70 Hz</p> <p>Power Factor ≥ 0.99</p> <p>Bypass Voltage Range (- 40%, +15%) (settable)</p> <p>Total harmonic distortion (THDi) ≤ 5%</p> <p>OUTPUT</p> <p>Output wiring Single-phase three-wire (1Φ + N + PE)</p> <p>Rated voltage 208 (PF=0.9) / 220 / 230 / 240 Vac</p> <p>Voltage regulation ± 1%</p> <p>Frequency Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode</p> <p>Waveform Sinusoidal</p> <p>Crest Factor 3:1</p> <p>Total Harmonic Distortion(THDi) "≤ 1% (linear load); ≤ 4% (non-linear load) "</p> <p>Transfer Time AC mode and battery mode:0ms</p> <p>Inverter model and bypass mode:0ms(Typical)</p>	01

		<p>Overload Capability 105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s 125%-150%: Transfer to bypass after 30 s;</p> <p>Efficiency AC Mode 92% Battery Mode 91% ECO Mode 98%</p> <p>BATTERY</p> <p>DC Voltage 192 Vdc (192 ~ 240 Vdc settable) Number of battery 16 pcs (16 ~ 20 settable) Number of battery 12 V / 7 Ah x 16 12 V / 9 Ah x 16</p> <p>Charging current "Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional; PF 0.9) "</p> <p>Recharge time "Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery</p> <p>SYSTEM</p> <p>Efficiency ≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode</p> <p>Transfer time 0 ms</p> <p>Protections Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure</p> <p>Max. number of parallel connections 4</p> <p>Protections Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure</p> <p>Communications RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)</p> <p>Display LCD + LED</p> <p>OTHERS</p> <p>Operating temperature 0°C ~ 40°C) Storage temperature (-25, 55)°C (without batteries)</p> <p>Relative humidity 0 ~ 95% (non-condensing) Altitude ≤ 1000 m, derating 1% for each additional 100 m</p> <p>IP rating IP 20</p> <p>Noise level at 1m ≤ 55 dB ≤ 58 dB</p> <p>PHYSICAL</p> <p>Dimension(mm)W*D*H 191 x 465 x 711 (S), 191 x 465 x 350 (H) 191 x 495 x 711 (S), 191 x 495 x 350 (H)</p> <p>Packing Dimension(mm)W*D*H 310 x 654 x 941 (S), 318 x 595 x 475 (H) 310 x 685 x 941 (S), 318 x 617 x 475 (H)</p> <p>Net Weight(kg) 53 (S), 14.5 (H) 62 (S), 16.5 (H)</p> <p>Gross Weight (kg) 61 (S), 16 (H) 70 (S), 18 (H)</p>	
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10.	Roller Shutter Chain Motor 600Kg	<p>For automation of roller shutters weighing up to 600 kg. Beautiful appearance Advanced structure Strong horsepower Easy to install and Maintain Overheat Protection Overload Protection Manual operation when power-off Wireless Remote Control Low Noise and Vibration Low Power Consumption Lifting Force: 600KG Motor Power: 250W Output rotate speed: 4.8R/Min Colour: Customized Rated Current: 0.7A Power Source: 380V 50Hz Output torque: 412N.M Phase: Three Phase Control: Remote & manual control Receiver and remote control</p>	02
11.	AC inverter 2 Ton Floor Standing	<p>Mode: Cooling Capacity: 28000 Current: 7.8 Rated Power Input: 4300 Rated Current: 20.0 Max Suction Pressure: 4.3 Sound Power: 45 Power Supply: 220-240V-50Hz Anti-Electric Shock: Class 1 Electric Heater Power: — Climate: T1 Air Flow: 1250m/h Net Weight: 28.0 kg Refrigerant: Same as Outdoors</p>	02
12.	Glass Partition	Aluminum glass partition wall frameless glass sliding door	03
13.	Rack	<p>Color/Finish: Hammer Tone Material: Carbon Steel Product Dimensions: 1200x1100mm Number of Shelves: 4 Poles diameter: Ø25.4mm Loading capacity: 150kg even distributed Features: NSF certified-safe for dry food storage Strong steel construction with durable hammer tone finish</p>	12

		With adjustable levelers for uneven flooring Easy to assemble with no tools required Standard 1-inch (25mm) shelf adjustment	
14.	Parts Storage Plastic Boxes	External Dimensions (top): 400 x 300 x 306mm high External Dimensions (base): L350 x W257mm Internal Dimensions (top): L363 x W270mm Internal Dimensions (base): L245mm x W252mm Material: High Impact Polypropylene Payload: static 35kg, dynamic 20kg, Stacking Load: static 250kg, dynamic 125kg Capacity: 25 Liters Item weight: 1.92kg Nesting height: 108mm Base Colour: Black Lid Colour: Black	16
15.	12 Drawer Tool Component Organizer Plastic Storage Box Container	Material: Plastic Holding Capacity: 12 Eight Drawers: 53mm H x 134mm W x 38mm D Four Drawers: 113mm H x 133mm W x 53mm D Overall: 23.5cm H x 26.5cm W x 16cm D Overall Product Weight: 1kg Ideal for storing small parts such as nuts, bolts, screws, nails, general fixings, and components. Also, great used as a craft or sewing box. 12 transparent drawers - eight 53 x 134 x 38mm drawers and twelve 113 x 133 x 53mm drawers Built-in drawer stops prevent fall out. Use free-standing or wall mount using integrated slotted holes (fixings not included). Robust plastic construction. Anti-slip out drawers and mounting holes on reverse. Suitable for use around the home, garage, shed, or workshop.	06
16.	Plastic tool box 14"/17"/20"	356mm(14")*168mm (6.6") *160mm(6.3") 17" Size : 436mm(17")*220mm (8.7") *205mm(8") 20" Size : 508mm(20")*296mm (11.7") *261mm(10.3")	12

17.	13-Inch Small tool bag	Material Nylon Color orange Product Dimensions 13"L x 7.3"W x 10.4"H Water Resistance Level Water Resistant Maximum Weight Recommendation 25 Kilograms Number of Compartments 32 Item Weight 2.97 pounds	05
18.	PTZ Power Supply 24 volt	Output Voltage AC24V Color Black Mount Option Two-wire Input Requirement AC220V/50Hz Output Plug Type Two-wire Wire Input wire: 1000±100mm, Output wire: 1500±100mm Operating Temperature And Humidity -10°C – +40°C, Humidity: 30%~85% Dimension (Mm) 96×81×64.5 mm 1230g Output Requirement AC24V/2.5A, No-Load Output Voltage 26.5±1V Output Power 60W Max	24
19.	JobSmart Assorted Screwdriver Set with Rack, 116 pc	Drive Size Range 6 pc. SAE nut drivers: 3/16 in. 1/4 in. 9/32 in. 5/16 in. 11/32 in. 3/8 in. Features Ratcheting Handle Length 3.15 in. to 4.72 in. Handle Material Polypropylene Head Material Steel Number Of Items Included 118 Product Height 12.99 in. Product Length 10.23 in. Product Weight 6.72 lb. Product Width 5.12 in. Screwdriver Head Style Phillips Shaft Length 1.97 in. -3.94 in. Tip Size Multiple	03
20.	Mobile screw driver kit	Handle Material Aluminum Finish Chrome Size H4*35MM & H4*28mm Other attributes Grade DIY, Industrial Warranty 1 year Customized support OEM, ODM Screw Head Type MULTIPURPOSE 130in1 Multifunction Household Screwdriver Set Main Materials of box PP+ABS+TPE, New environmentally friendly materials Screwdriver Handle materials PP+TPR Screwdriver Bits surface treatment phosphating ash Bits Materials 117pcs CRV H4*28mm; 3pcs 3pcs S2 H4*35MM	05.

		Soft plastic rod 130mm black plastic soft Upgrade part Aluminum alloy handle Features 1 120PCS Bits(includes 3pcs long)	
21	100 watt Goot soldering iron	Voltage 110V, 120V, 130V, 220V, 240V AC 50/60Hz Power Consumption 100W Equivalent Heater Nichrome Heater Length 243mm Weight? 80g Accessories Soldering Iron Tip RD-68BC	03
22.	60-watt Goot soldering iron	Voltage 110V, 120V, 130V, 220V, 240V AC 50/60Hz Power Consumption 60W Equivalent Heater Nichrome Heater Length 233mm Weight? 70g Soldering Iron Tip R-6B	03
23.	Soldering wire	Net Weight: 100 grams Sn/CU: 99.3%/0.7%; Flux: 2.2%; Diameter 0.8 mm/ 0.0315 inch Lower Melting Point: 440.6F/227C	03.
24.	Repair & Maintains	Wooden floor. Wallpaper & Acrylic Logo with backlight	
25	Training	vendor will be responsible for providing training to the concerned focal persons of CTD Punjab on beginner to advance level for on spot installation and configuration.	
26	License:	License of the software should be perpetual and PTA Approved with 5 years warranty of all gadgets.	
27	After sale services	Related to parts replacement and repairing: Vendor will be responsible for the repair and replacement of the parts and gadgets on door step service.	

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- Accessories (if applicable) shall be the part of final consignment.

SSP/Intelligence
CTD HQ, Lahore

AD/Admn
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OS/Procurement
CTD HQ, Lahore

OS/R&A
CTD HQ, Lahore

Ex-Project Development Specialist
CPO, Lahore
(Co-Opted Member)

Armed Drone

Sr No	Specs	Quantity	Detail	Specification
1	Aircraft	1	Weight	10 kg
			Max Takeoff Weight	15.5 kg
			Hovering Accuracy (P-GPS)	Vertical: ± 0.5 m, Horizontal: ± 1.5 m
			Max Flight Speed	40 mph / 65 kph (no wind)
			Max Ascent Speed	5 m/s
			Hovering Time	No payload: 32 min, 6 kg payload: 16 min
			Battery	Intelligent Flight battery 6000 mAh LiPo 2S
			Flight Control System	A3 Pro
			Operating Temperature	14° F to 104° F (-10° C to 40° C)
2	Remote Controller	1	Operating Frequency	920.6 MHz to 928 MHz (Japan); 5.725 GHz to 5.825 GHz; 2.400 GHz to 2.483 GHz
			Max Transmission Distance	FCC Compliant: 3.1 mi (5 km), CE Compliant: 2.2 mi (3.5 km) (Unobstructed, free of interference)
			Transmitter Power (EIRP)	10 dBm @ 900M, 13 dBm @ 5.8G, 20 dBm @ 2.4G
			Video Output	HDMI, SDI, USB

			Port Operating Temperature	14°F to 104° F (-10° to 40° C)
3	Supported Gimbals	1	Gimbal Flight Control System	Ronin-MX; Zenmuse Z30, Zenmuse X5/X5R, Zenmuse X3, Zenmuse XT; Zenmuse Z15 Series HD Gimbal: Z15-A7, Z15-BMPCC, Z15-5D III, Z15-GH4 A3 Pro
4	Spare Intelligent Flight Battery	4	Capacity Voltage Bettry Type Energy Weight Charging Temperature Max Charging Power	6000 mAh 22.8 V LiPo 6S 129.96 Wh 680 g -105°C to 40° C (14°F to 104° F) 180 W
5	Memory Card	3	Memory Card	Samsung EVO Plus 512GB V30 microSDXC SanDisk Extreme Pro 512GB V30 A2 microSDXC SanDisk Extreme Pro 512GB V30 A2 microSDXC
6	M4 Rifle	1	Manufactured Model Caliber Action	COLT US - Assembled in Pakistan M4 5.56 NATO Gas Operated Semi Auto
7	M4 Tracking Point Optics (FCS)	1	Zoom Tracking Precision	2 – 14x & 3 - 21x 0.047 Minutes of Angle (MOA, .25

			WiFi Lock Range Lock Time Ranging Capability Compatible with Batteries Weather Resistant Front Sight	inches @ .3miles) 802.11G 1200 Yards 1 second Integrated Laser Range Finder for targets at 1200 Yards Dual Lithium Ion Batteries P67 Splash, Water & Dust Resistant Barrel Reference System (BRS) with Integrated Front Sight Post
8	Modes		Precision Targets Precision Movers Night Mode Auto-Acquire Suppressive Fire	Calculates ballistic solution for stationary targets. Calculates firing solution for moving targets. For Gen-2, Gen-3, and Thermal attachments User predesignates the tag on the target, allows for quick follow up shots to the same location. Collects and holds real-time ballistics solution to systems maximum range. Trigger is live to reduce time of engagements

Note: Please include standard term and condition including warranty of 10 year, after sale service of 10 years and complete operating training.

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.

- Installation / configuration shall be the responsibility of the firm.
- Accessories (if applicable) shall be the part of final consignment.

IT EQUIPMENT / SOLUTION FOR COMMAND AND CONTROL VEHICLE

Sr.	Type	Requisite Specification	Quantity
1.	Command And Control Vehicle		
2.	Vehicle	On which Equipment will be installed : Toyota Coaster to be provided by Procuring Agency (Detail Specifications attached (Annex-A))	01
3.	Estimated Cost		
4.	Hardware And IT Equipment for Command and Control Vehicle		
5.	MNVR 8 Channel	DSS compatible Facial Recognition 2 Way Talk Night Vision (Support) Live Location (5second update) PTA approved (life time registration) Eight-channel IP/PoE Camera Input 4MP Real-time Recording on All Channels H.265 Video Compression Simultaneous HDMI, VGA, and TV Video Output Channels Two (2) 2.5-in. Hard Disk Drive Ports and (2) USB 2.0 Ports (HDDs sold separately) Aviation Connectors for Increased Signal Stability • 5 year warranty	02
6.	PTZ Camera	8MP 48x Starlight Laser AI Network Positioning System 1/1.8" 8Megapixel STARVIS™ CMOS • 48x optical zoom • Starlight technology • Max. 25/30 fps@8M • Laser distance up to 1000 m • H.265 encoding • Two-way audio • IP67 • Auto-tracking • Perimeter protection • face recognition • Optical fiber Technical Specifications attached (Annex-D)	01
7.	Pin Hole camera	4MP Fixed-focal Pinhole Network Camera • 4-MP 1/3" CMOS image sensor, low luminance, and high definition image. • Outputs max. 4 MP (2688 × 1520) @20 fps, and supports 3.6 MP (2560 × 1440) @25/30 fps. • H.265 codec, high compression rate, ultra-low bit rate. • ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments. • Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes. • Intelligent monitoring: Intrusion and tripwire. • Abnormality detection: Motion detection, video tampering, scene changing, audio detection, network disconnection, IP conflict, illegal access, and voltage detection. • Audio: 1 in, 1 out; built in MIC. • 12 VDC power supply. • 5 year warranty	06
8.	Double Lenz Dash Cam	2MP Dual Lens Dash Camera • 1/2.8" 2Megapixel progressive scan STARVIS™ CMOS	

		<ul style="list-style-type: none"> • H.265&H.264 double-stream encoding • 25/30fps@1080P (1920×1080) • WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC • Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS • 2.1mm(Rear),2.8mm(Front) Fixed lens • Micro SD memory • Ethernet IPv4 	
9.	Drone Camera System	Detail Specification Attached (Annex-C)	01
10.	USB 3.2 Super Speed 20 GBps	<ul style="list-style-type: none"> • 256GB • Connector USB-A Compatibility USB 3.2 (backwards compatible with USB 2.0) • Sequential Read Performance Up to Super Speed 20 GBps Interface USB 3.2 • Warranty 5-Year • Dimensions (L x W x H) 0.26" x 1.67" x 0.52" Weight 4.5gms • Operating Temperature -45°C to 0°C Non-Operating Temperature -70°C to -10°C 	04
11.	Computer Desktop	<ul style="list-style-type: none"> • Intel® Core™ 14th Gen i9 14900KF (24-Core, 68MB Cache, 2.4GHz to 6.0GHz Thermal Velocity Boost) • Windows 11 Pro, English, French, Spanish • NVIDIA® GeForce RTX™ 4090, 24GB GDDR6X • Memory 64 GB: 2 x 32 GB, DDR5, 5200 MT/s • Harddrive 2 TB, M.2, PCIe NVMe, SSD • 1000W Platinum Rated PSU, 240mm Liquid-Cooled CPU & Clear Side Panel 	02
12.	Hard Drive	<p>SATA III 2.5" SSD 2TB</p> <p>General Feature</p> <p>Capacity 2TB</p> <p>Interface SATA 6 Gbps Interface, compatible with SATA 3 Gbps & 1.5 Gbps interfaces</p> <p>Speed Read/write speeds of up to 560/530 MB/s</p> <p>Encryption AES 256-bit Full Disk Encryption, TCG/Opal V2.0, Encrypted Drive (IEEE1667)</p> <p>Type</p> <p>Product Type SATA SSD</p> <p>Storage Type Internal</p> <p>Interface SATA 6 Gbps Interface</p> <p>Read/Write Speeds up to 560/530 MB/s</p> <p>Usage Application Client PCs Storage</p> <p>Capacity 2TB</p> <p>Key Features</p> <p>Compatibility Compatible with SATA 3 Gbps & 1.5 Gbps interfaces</p>	02

		<p>Security AES 256-bit Full Disk Encryption, TCG/Opal V2.0, Encrypted Drive (IEEE1667)</p> <p>Internal Storage Yes</p> <p>2.5 SATA Yes</p> <p>Form Factor</p> <p>Product 2.5"</p> <p>Dimensions (W x H x D)</p> <p>Product 3.94" X 2.76 " X 0.27"</p> <p>Weight</p> <p>Product 0.19 lbs.</p>	
13.	Signal Booster	<p>FREQUENCIES MAX GAIN IMPEDANCE POWER CONNECTORS BOOSTER DIMENSIONS BOOSTER WEIGHT 470154+ Band 12/17 700 MHz Band 13 700 MHz Band 5 850 MHz Band 4 1700/2100 MHz Band 25*/2 1900 MHz 50 dB 50 Ohm 12V, 1.8A SMA Female 6 x 4.5 x 1.5 in. 1.80 lbs.</p> <p>Enhances all available wireless network signals and speeds throughout a passenger vehicle — car, truck, van, or SUV. • Works on ALL cellular devices with ALL carriers simultaneously. • Improves talk, text, and high-speed internet.</p> <p>.PTA Approved</p> <ul style="list-style-type: none"> • 5 year warranty 	01
14.	Access Point	<p>High Power Wireless Outdoor Access Point</p> <p>Wireless Standard IEEE802.11ac/a/b/g/n</p> <p>Frequency 2.4GHz & 5.8GHz</p> <p>Antenna 6*8dBi Antennas</p> <p>DDR/FLASH 256MB/16MB</p> <p>Wireless Speed 1750Mbps</p> <p>Range 2km in urban area with full signal</p> <p>Ethernet Port 1*10/100/1000Mbps WAN/LAN</p> <p>Power supply Standard 48V PoE Power</p> <p>IP Level IP67</p> <p>Certification CE/FCC/ROHS/ISO9001</p>	
15.	Mobile Charger	<p>Input: 12V-24V DC; Output: dual 5V 2.1A, 4A, DC, works great as a replacement or extra charger for fast charging mobile phones, tablets, cameras, GPS and other USB devices.</p> <p>Efficient Charge: Dual USB charger enable you charge two devices simultaneously at fast speed with 2.1A,4A in each USB port. With a total power of 4.2A, it works for all USB powered devices. makes the charger 40% faster than conventional chargers.</p> <p>The Rocker style USB charger can fit in common rocker switches, it fits right in slots where switches are supposed to go. It was a direct replacement for the extra rectangle hole for an accessory in the dash. Great for boats, side by sides, Yachts, Assessed boats, RVs, Trucks and other vehicles.</p> <p>Quality assurance: The charger is made of well-conductive pins, ensure long lasting durability highly optimized for general use and should give you a pleasant experience.</p> <p>Package Include: A Rocker Switch style USB Charger, 2 Insulated terminals. 2 Year Warranty</p>	02
16.	Mobile Charger 220 volt 120	<ul style="list-style-type: none"> • Output: 120W max output • Case material: High temperature resistant material • High altitudes: Suitable for use at 2000m altitudes 	02

	watt	<ul style="list-style-type: none"> Compatibility: *Safe charging for most Type-C port laptops on the market, with smart fast charging power up to 65W (20V/3.25A) Product material: PC Input parameters: 100-240V~, 50/60Hz, 1.7A Output parameters: 5V=3V / 9V=3A / 11V=6A Max / 20V=6A Max Dimensions: 63.5×60.3×28.4mm (excludes pin length) Operating temperature: -10°C~40°C Package Contents: Charger, USB-C cable, User Manual 	
17.	Joystick	<ul style="list-style-type: none"> Control High Speed Domes, DVRs and Network Video Servers Three-dimensional Joystick Control for PTZ Functions Preset Position, Auto Scan, Auto Pan, Auto Tour and Pattern Control Support for Auxiliary Functions On-screen Menu Supports SmartPSS (via USB connection) 5-year warranty 	02
18.	EXTERNAL HARD DRIVE	<p>USB 3.0 portable hard drive combines the superior performance of USB 3.0, vast storage space, eye-catching enclosure, and a three-stage shock protection system that meets U.S. military drop-test standards</p> <p>Buffer 8 MB Drive Interface SATA Spindle Speed (rpm) 5400 Product Color Purple External Drive Type Portable Drive Type External Form Factor 2.5" Storage Capacity 2 TB Host Interface USB 3.0 Height 5.2" Width 3.2" Depth 1" Durability Anti-shock Product Model 25H3P Product Line StoreJet Packaged Quantity 1 Limited Warranty 3 Year Maximum External Data Transfer Rate 5120 MB/s (40 Gbit/s) BUS Powered Yes</p>	02
19.	Mechanical Key Board with rechargeable Mouse	<p style="text-align: center;">Mechanical Key Board</p> <p>Connection Type USB Wired Rated Voltage DC5V / <250mA Material Laser Engraved Keycap No. Of Buttons 104 Button Press Distance 4.0mm Button Press Force 60 +/- 10g Switch Life Up to 50 million clicks Keyboard Backlit Multi Color Backlit (Regional Colored) Cable 1.8M PVC Dimension 436x129x35mm Product Weight 700g +/- 10g (Include cable) Supported Operating System Windows XP/7/8/10, Mac OS</p> <p style="text-align: center;">Rechargeable Mouse</p> <p>Connection Type, 2.4 GHz wireless connection; Bluetooth® 5.3 Wireless Range [1]Up to 32.81 ft in open area Sensor Technology Track on glass Sensor Nominal Value 1200 dpi</p>	03+03

		Sensor resolution Up to 3000 dpi Buttons 7 Programmable Buttons Advanced Scroll Wheel Tilt wheel; Fast scrolling Battery Rechargeable Li-ion Battery life Up to 3 hours (after 1-minute charging); Up to 3 months (when fully charged) Indicator Light Battery; Channel LED Color Black	
20.	Internet Device	Zong 4G Bolt Router with antenna	02
21.	Internet Device	Jazz Bolt 4G Router with Antenna	02
22.	Router 8-Port	TP-Link AC-1200	01
23.	Internet Switch 8-Port	Cisco 8 Port Gigabit Switch Sg100d-08	01
24.	Android TV Box for video wall	Video Decoder: Up to 4K 60FPS, Dolby Audio®, Dolby Vision HDR10+ and DTS-HD Output Resolution: 4K (3840 x 2160) CPU: Cortex-A55 Quad-core 64bit GPU: ARM Mali G31 MP2 RAM: 4GB DDR3 Storage: 32GB eMMC Operating System: Android 8.1 Wireless connectivity Dual-Band Wi-Fi: 2.4GHz/5GHz Bluetooth: 5.2 Socket HDMI 2.1: 1 USB2.0: 1 Power Interface: 1 Audio Out: 1	01
25.			
Body Fabrication Material and Hardware Specifications			
26.	Command and Control interior work Fabrication 2D model Requirements for the	<ul style="list-style-type: none"> Detail requirements and 2D layout attached in (Annex-E) 	
27.	Flooring	<ul style="list-style-type: none"> Special hard points should be installed for installation of various items including working partition wall, generator rails, working tables, seats, cabinet / cupboards etc. Water and termite proof Plywood of ½” inches thickness should be laid on the complete Floor of the vehicle. The floor is carpeted with flexible, non-slip, water proof and washable special Vinylcovering of at least 2mm thick with wooden texture. All side gaps should be sealed with silicon. 	
28.	Partition Wall	<ul style="list-style-type: none"> A partition wall made of Fiberglass should be provided between the driver cabin and rear cabin. There should be a sliding door in the partition wall. One LED TV 42” Smart TV should be mounted on the partition wall for general observation. 	

		<ul style="list-style-type: none"> The LED TV should be mounted in a customized frame with leatherette upholstery.
29.	Walls & Ceiling	<ul style="list-style-type: none"> The walls of the coaster should be lined with premium quality Leatherette upholstery finish. The ceiling should be customized with the high-quality appropriate material or Leatherette upholstery finish.
30.	Walls & Windows	<ul style="list-style-type: none"> Interior 3 / 4 windows should be provided with proper window frames. The window frames should be lined with premium quality Leatherette upholstery finish. The windows should have roll up/down electric blinds which should be controlled with remote.
31.	Lighting	<ul style="list-style-type: none"> High quality LED lights should be installed in the ceiling for well-lit interior. The ceiling lights should have combination of round down lights and linear panel's lights. All LED lighting should be installed in proper customized frame with Leatherette upholstery finish. Working stations should have dedicated downlights on top. All cabinets should also have LED strip lights inside.
32.	Electrical Switches	<ul style="list-style-type: none"> Concealed, high quality imported Ethernet ports, electric switches and sockets should be installed near working table. 220V / 12V sockets and USB socket should be provided. Ethernet sockets should be installed near working table and equipment rack.
33.	Air Conditioner	<ul style="list-style-type: none"> Two Ductless Air Conditioner (Imported) should be installed on the top of the vehicle. Special roof mounted ductless Air Conditioner units having up to 11,000 – 13,000 BTU should be provided at roof of the vehicle at appropriate place. Plenty of cooling capacity of 1500 watts and has energy to spare even under extreme conditions. Designed to provide cooling. Designed for vehicles for journeys to regions with a hot climate or high temperature fluctuations. Three blower functions Regulated via the Control panel. Thermostat Temperature Controlled.
34.	Main Distribution Panel	<ul style="list-style-type: none"> Main Power on/off circuit breaker of appropriate amperage. Circuit Breakers (Lighting) Circuit Breakers (utility switches) Emergency switch off External 220V inlet sockets (Main grid) 2 pole, 2 nose breakers 63 AMP. (minimum 02 pieces depending upon installation) Single pole breakers (08 pieces) (For Sockets, Water dispenser, Lighting, and AC etc.) This should be included in fabrication cost.
35.	Cables and Wiring	<ul style="list-style-type: none"> All electrical wiring of compartment should be of wiring harness system with no joint and taping and joints should be soldered with connector system and special clips. All wires should be of fire retardant and high temperature resistant material. Complete wiring of the vehicle should be concealed in fire proof PVC duct of A+ quality. All wires Should be in PVC casing

36.	Seating	<ul style="list-style-type: none"> L shape sofa come Bed style seating (approx. 87") for total four to six persons with plush cushioning and premium leatherette upholstery should be provided. Two folding seats (approx. 18") face each other should be provided at the entrance side.
37.	Foldable Berth	<ul style="list-style-type: none"> Double foldable berth system on upper side of the Sofa seats with best available electro-mechanical system and space management
38.	Working Table	<ul style="list-style-type: none"> Two persons working table should be provided on the left side of the vehicle towards the back. The customized console type table should be fabricated keep dedicated space for monitors and equipment. Four, 27"-28" LED monitors should be provided. (Two on top of each other). (Samsung, HP or Dell). The monitors should have 4K support and HDMI connectivity. Customized console frames should be designed for installation of Monitors. Specialized computers / workstations should be provided by the client; however, system installation should be carried out jointly. Multi-sockets, HDMI Port & Ethernet ports should be provided at the working table. The tables should have two set of draws for each operator. There should be two office chairs comfortable enough for long operations.
39.	Rear section and cabinet	<ul style="list-style-type: none"> At the rear of the vehicle, insulated section should be created to isolate generator compartment from rest of the vehicle. Around this section, full size cabinet should be created to provide space for installation of UPS, batteries and various other equipment. On the top of the cabinet, there should be two 32" Smart LED TV mounted at the back Adjacent to each other.
40.	Storage Rack and Pantry	<ul style="list-style-type: none"> One full height cabinet should be provided opposite side of work station. This cabinet should have various drawers and shelves of unbreakable ABS Material or alike material. The cabinet should have dedicated charging station for charging of various battery-operated equipment (Walkie Talkie Sets, Drone etc.) Cabinet racks Section and Structure should be in ABS material or Suitable UN-breakable material as provided in working table. The cabinet should also have dedicated weapons storage section. There should be a small microwave oven and vehicle type refrigerator approx. 30L installed into this cabinet.
41.	Generator 6 Kva	<p>230(240)v-50hz Sound Proof Inverter Petrol Generator 6.3 KVA - Made in Japan Should be included in fabrication work (Detail Specifications attached (Annex-B))</p>
42.	3 KVA inverter UPS	<ul style="list-style-type: none"> One 3 KVA, 24 Volt UPS system should be provided for equipment and systems. The UPS should be pure sine wave and designed to provide uninterrupted power to the system. (Inverex Nitrox 3KW – 24V Solar inverter or equivalent)

		<ul style="list-style-type: none"> • Max. Efficiency 97.6% • Support Generator Connection • High Surge Endurance • High Power Factor • IP65 Ingress Protection <p>The UPS should have four Polymer-Gel batteries, 150 Ah each. (NARADA 150Ah orequivalent)</p>	
43.	Batteries	<p>12V, 150AH, POLYMER GEL BATTERY (04 pieces NARADA 150Ah orequivalent)</p> <p>Polymer-Gel Valve- Regulated Lead Acid battery</p> <ul style="list-style-type: none"> • Premium design for higher reliability & performance • Front terminal design suited for 19"/21" cabinet • Strong handles for easy operation • Patent Terminal sealing & front access • Self-regulating pressure relief valve with flame arrester • Terminal cover for insulation with flexible access • Flame retardant ABS case (UL94 V-0, optional) • Centralized H2 gas vent kit • Comply with IEC, IEEE, UL, EN, CE standards, etc. • Design life at 25°C (77°F): 12+ years 	
44.	HDMI Cable	<p>Size 5 Meter</p> <p>Compatible Devices Projector, Monitor, Television, Personal Computer</p> <p>Special Feature 3D/4K@60Hz UHD resolution</p> <p>Recommended Uses For Product HD picture quality</p> <p>Connector Gender Male-to-Male</p> <p>Data Transfer Rate 18 Gigabits Per Second</p> <p>Shape Round</p> <p>Item Weight 310 Grams</p> <p>Connectivity Technology HDMI</p> <p>Model Name HDMI Cables</p> <p>Indoor/Outdoor Usage Outdoor, Indoor</p> <p>Item Height 50 Millimeters</p> <p>Item Width 19 Centimeters</p> <p>Product Dimensions 20 x 19 x 5 cm; 310 Grams</p> <p>Included Components HDMI Cable</p> <p>Manufacturer Secure Connection Limited.</p> <p>Item Weight 310 g</p>	
45.	Ethernet cable CAT 6 300 Meter	<p>Cat 6 ethernet cable 23AWG solid bare copper 0.52mm with high performance in network transmission. Cat 6 ethernet cables support up to 10G speed 550MHZ ethernet network.</p> <p>Cat6 cable 1000ft are in compliance with ANSI/TIA 568.2-D standards. POE/POE+/POE++: Cat 6 bulk cable 1000 supports Power over Ethernet: PoE/PoE+/PoE++ (IEEE 802.3af/at/bt). Ethernet cable cat6 could be used for IP ethernet security cameras to the NVR, PoE phones and POE Aps</p>	
46.	Customize tool kit	<p>Tire Inflator Portable Air Compressor for Car SUV</p> <p>Item Weight 3.73 Pounds</p> <p>Power Source Corded Electric</p> <p>Air Flow Capacity 22 LPM</p> <p>Maximum Pressure 120 Pound per Square Inch</p> <p>Operation Mode Automatic</p> <p>Package Dimensions 10.43 x 7.68 x 4.84 inches</p> <p>Style Portable</p> <p>Voltage 110 Volts, 220 Volts, 12 Volts</p>	

		<p>Item Package Quantity 1 Special Features Portable, Digital Included Components Tire Pump with Instructions Warranty Description 2 Year Warranty</p> <p>13-Piece Complete SAE Combination Wrench Set in Roll-up Pouch</p> <p>No Skipped Inch Sizes from 1/4" to 1" Material Chrome Vanadium Steel Head Style Box End Finish Type Chrome Finish Operation Mode Mechanical Part Number WR-041 Item Weight 3.98 pounds Product Dimensions 13.9 x 2.9 x 2.5 inches Size 13-Piece SAE Set Finish Chrome Finish Warranty Description Lifetime Warranty</p> <p>18 Pcs Hex Key And Torx Key Set</p> <p>9 Pcs Hex Key Size : 1.5-10mm 9 Pcs Torx Key Size : T10-T50 Extra-long arm Material : Cr-V</p> <p>3-Piece Pliers Set & WORKPRO 8-in Linesman Pliers with Wire Cutter and Stripper</p> <p>Style Pliers Material Alloy Steel, Iron, Metal Handle Material Iron, Metal, Steel Usage Bending, Clamping, Crimping, Cutter, Cutting, Shaping, Twisting</p> <p>Plier has the functions of fastening, clamping, winding, cutting, crimping and stripping. 8 Inch Lineman Plier can be used as a wire stripper and also works as a wire cutter plier. Wire stripping: Suitable for SLD 12、 14、 16; STR 14、 16、 18 wires, easy to strip without damaging the wire core. WORKPRO 8 inch linesman plier 60CR-V steel with overall heat treatment and forged with blackened surface to ensure higher hardness, toughness, and durability and stronger corrosion resistance, anti-rust. Cut steel wire, copper wire, iron wire and other common metals, strong bite force, can easily reverse effectively fixed or loose screws and nuts. Ideal for electricians, plumbers, carpenters, car mechanics. Plier set including 6" needle nose pliers, 6" slip joint pliers and 6" diagonal cutting pliers. Great for gripping small parts, bending, shaping, and twisting wire, crimping sheet metal, working with fasteners, and more.</p>	
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		<p>Heavy Duty Circuit Tests Low Voltage Up to 12 Volts</p> <p>Power Source Hand Powered Style Heavy Duty Circuit Tests Low Voltage Up to 12 Volts Color Factory Item Weight 4.8 Ounces Item Dimensions LxWxH 10.5 x 4.25 x 1.25 inches Item Weight 4.8 ounces Product Dimensions 10.5 x 4.25 x 1.25 inches Voltage 12 Volts</p> <p>Cordless Circuit Tester</p> <p>Does not require ground cable or clamp, user's own body/hand as ground User must be holding tester as well as contacting a ground with bare hands Safe on ECM's, transducers and airbags For 3-28V DC circuits V-Tip for safe and centered wire piercing</p> <p>High-precision True RMS Digital Multimeter</p> <p>AC voltage 600.00mV/6.0000V/60.000V/600.00V ±(1%+30) AC current 6.0000A/10.000A ±(1.5%+30) DC voltage 600.00mV/6.0000V/60.000V/600.00V ±(0.3%+10) DC current 6.0000A/10.000A ±(0.5%+10) Auto-V loz 600.0V ±(1%+3) LPF voltage (ACV) 600.0V ±(2%+3) Frequency 99.99Hz/999.9Hz/9.999KHz/50.00KHz ±(0.01%+3) Resistance 600.00Ω~6.0000MΩ ±(0.5%+5) 40.000MΩ ±(3%+5) Capacitance 1000nF/10.00uF/100.0uF ±(1.9%+5) 1000uF/10000uF ±(2.5%+5)</p> <p>Main Features Display count 60000 External current clamp Ratio: 1mV/A Continuity & Diode NCV Data Hold Manual/Auto range Max/Min Relative mode High voltage warning Audible & Visible indication Low battery indication Auto Power Off Around 15 minutes LCD backlight Auto power off after 5 minutes</p>	
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		<p>Drop Test 2m Overvoltage category CATIII 600V General Characteristics Power supply 1.5V AAA * 3 Product Color Red + Grey Product Weight Around 346g Product Dimension 169x 84x 48.8mm Accessories Test probe*1 pair, Battery, Magnetic strap*1 pcs, User manual*1 pcs</p> <p>Portable Power Station Jump Starter 1000 Peak Amp Battery Booster, 120 PSI Air Compressor, USB Port, Battery Clamps</p> <p>Product Dimensions 11"D x 7.5"W x 13"H Item Weight 17.8 Pounds Amperage 1000 Peak Output Current 1000 Amps Item Weight 17.75 pounds Bulb Type led</p> <p>Delivers serious jump-starting power with 1000 peak amps and 500 instant starting amps Reverse polarity alarm alerts when there is an improper connection; Connect the clamps to the battery, turn on the switch and start your vehicle. All Metal Powder Coated Clamps Features a 120 PSI air compressor to help inflate tires with low pressure; High-powered LED light rotates 270 degrees to help you work in the dark Built-in 12V DC outlet and USB port provide portable power for electronic devices; Includes a limited 1 year manufacturer warranty ump starter should be charged every 30 days when not in use; Charges using a standard household extension cord</p> <p>Basics Jumper Cable for Car Battery, 10 Gauge, 12 Foot</p> <p>Item Weight 2.2 pounds Product Dimensions 142.84 x 3.88 x 1.95 inches Exterior Machined</p>	
47.	UV Rejection Sheet & Sound Dampening	<ul style="list-style-type: none"> • High quality, imported, UV Rejection & Thermal Insulation Sheet should be installed on all windows of the coaster. • High Quality sound dampening sheets should be installed throughout the vehicle to minimize the road noise into the cabin. 	
48.	Roof Frame with 360-degree surveillance	<ul style="list-style-type: none"> • There should be a mild steel air deflector boarder frame approx. 8"-12" high all around The roof of the vehicle. • The boarder frame should be designed to provide aerodynamic looks of the vehicle. • The boarder frame should have U shape recessed grooves on all four sides with highquality LED flood lights installed to keep sleek esthetics. 	

		<ul style="list-style-type: none"> The boarder frame should also have recessed grooves with cameras for all four sides for general observations around the vehicle. 	
	Industrial Extension Lead 50-meter Heavy Duty Cable Reel.	<ul style="list-style-type: none"> 3 Socket Cord Reel Socket with circuit breaker protection 50-meter flexible wire 110/76. Heavy duty covering reel 	
49.	Weapon space	<ul style="list-style-type: none"> Weapon space for 2 Pistol 2 SMGS beneath sofa set according to weapon profile 	
50.	Automatic Retractable telescopic arm for PTZ camera	<ul style="list-style-type: none"> One remote controlled, telescopic pole should be installed on the roof of the vehicle with PTZ camera installed for 360-degree surveillance. The pole can be extended 5-6 feet high and it can also be folded down remotely when not in operation. The whole telescopic pole and camera should fold down into a secure MS frame which can be closed manually during transportation. The camera and telescopic pole can be operated from inside the vehicle from working table. 	
51.	ABS or glass fiber pod for retractable Arm	<ul style="list-style-type: none"> Cavity according to camera profile Weatherproof container for PTZ camera and arm safety Automatic lid synchronized with Arm retraction and folding 	
52.	LED Flood Lights	<ul style="list-style-type: none"> 3 on each sides embedded on aerodynamic roof rack camouflaged 2 on each ends embedded into aerodynamic roof rack container 	
53.	Public announcement Sound system	<ul style="list-style-type: none"> Sound system roof mounted in roof rack for announcements Amplifier heavy duty Mic integrated 	
54.	Interior Lighting	<ul style="list-style-type: none"> 2 tone interior lighting 	
55.	Communication Provision	<ul style="list-style-type: none"> Communication system integration according to Punjab police standard 	
56.	Additional Alternator	<ul style="list-style-type: none"> 120 Amp 24 Volts Additional alternator integration with engine DC compatible wire with RV on line DC to DC charge controller 100 Amps 	
57.	Warranty	<ul style="list-style-type: none"> Standard warranty of [24] months should be provided. 	
58.	Power	<ul style="list-style-type: none"> Multiple source synchronization grid power generator dc alternator high with quality plug commercial 	
<ul style="list-style-type: none"> ➤ Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment). ➤ 5% ± is acceptable in measurements only. ➤ Installation / configuration shall be the responsibility of the firm. ➤ Accessories (if applicable) shall be the part of final consignment. 			

Specifications of Vehicle for Command and Control:

DIMENSIONS		
Exterior LxWxH	(mm)	6990x2080x2635
Wheel Base	(mm)	3935
Tread	Front (mm)	1690
	Rear (mm)	1490
Min. Running Ground Clearance	(mm)	185
Gross Vehicle Weight	(Kg)	5670
Minimum Turning Radius (Body)	(m)	7.9
Seating Capacity		29
ENGINE SPECIFICATIONS		
Displacement	(cc)	4009
Engine Code		N04C-VL
No. of Cyls.		4
Cylinder Arrangement		In-Line
Fuel Type		Diesel
Fuel System		Common-rail Type
Maximum Output	kW/RPM	100/3000
Maximum Torque	Nm/RPM	353/1600
Emission Certification		Euro 2
PERFORMANCE		
Brakes	Front	Ventilated Discs
	Rear	Dual Two Leading Drums
Transmission Type		Manual
Suspension	Front	Double Wishbone
	Rear	Leaf Suspension, Rigid
Steering Gear Type		Recirculating Ball
Power Steering Type		Hydraulic Type
Fuel Tank Capacity	Ltr	95
EXTERIOR		
Headlamps	Type	Halogen
	Levelling	Manual
Front Fog and Driving Lamps		yes
Tyre Size		215/70 R17.5
Spare Tyre		Ground Tyre with Lock
Center Door		Auto Folding Door with Buzzer and Warning Lamp
Fuel Lid Opener	Type	Electric
Mud Guards		Yes
Outside Rear View Mirrors		Yes
Side Turn Signal Lamps		yes
Side Marker Lamps		With Side Reflector
High Mount Stop Lamp		yes

INTERIOR		
Color		
Audio System		AM/FM, CD, USB, AUX, MP3, VFD
Speakers		Front (2) and Rear (2)
Microphone with Amplifier		yes
Air Conditioning		Yes
Heater		Yes
Steering Wheel		2-Spoke Urethane
Digital Clock		Yes
Sun Visors		Driver + Passenger
Rear Window Defogger		With Timer
Inside Rear View Mirror		Yes
Seats	Material	Fabric Base
	Front	Driver (with Headrest and Reclining) + Passenger (Mid-Back)
	Rear	Mid-Back
Driver Seat Under Tray		Yes
Assist Grip	Front	Driver Side Pillar
	Rear	Passenger Seats
Cup Holder		Front
Intermittent Wipers	Front	With Washer
	Rear	With Washer
Floor Carpet and Mat	Front	Vinyl Mat (Carpet) with Rubber Mat (Driver Only)
	Rear	Vinyl Mat (Carpet)
Lamps	Luggage Room	Yes
	Center Door Step	Yes
	Room Lamp	Yes
SAFETY AND SECURITY		
Seat Belts	Front	Driver & Passenger: 3-Point ELR with Pretensioner and Force Limiter
	Rear	2-Point Waving Type
Airbags		Driver + Front Passenger
Anti-Lock Braking System		yes

Annex-B

Generator 230(240)v-50hz 6kva	
Type	Inverter type
Rated voltage (V)	230
Frequency (Hz)	50
Rated output (kVA)	5.5
Max output (kVA)	6.3
DC output	-
Engine	
Type	MZ360:4-stroke OHV pressure air cooled
Starting system	Electric *1
General	
L*W*H (mm)	780*616*692
Dry Weight (kg)	91
Fuel tank capacity(full)(l)	17
Operating Hours (Hr/ 1/4 load)	13.3 (Economy control system : ON)
Operating Hours (Hr/ rated load)	5.1 (Economy control system : ON)
Noise Level (db A)(7m)	58.0(1/4 load)-64.0(Rated load) (Economy control system : ON)
Features	
Voltage regulator	Inverter
Circuit breaker system	Computer controlled
Fuel level gauge	Yes
Oil level warning system	Yes
Pilot lamp	Yes
Economy control system	Yes
Voltage fluctuation	
Instantaneous	Less than 25%
Setting	Less than 1%
Setting time	Within 2 secs.
Frequency stability	Less than ± 0.1 Hz
Waveform distortion	Less than 4.0%
Accessories	
Transportation kit	Standard
Wireless Remote Control Kit	Optional

Drone Camera**Annex-C**

SSP/Intelligence
CTD HQ, Lahore

AD/Admn
CTD HQ, Lahore

OS/Procurement
CTD HQ, Lahore

OS/R&A
CTD HQ, Lahore

Ex-Project Development Specialist
CPO, Lahore
(Co-Opted Member)

Specs	Quantity	Detail	Specification
Drone Camera	1	Weight Max Flight Speed Max Wind Speed Resistance Max Flight Time Max Flight Distance GNSS Wide Camera Tele Camera Battery Remote Controller Carrying Case Propellers Charger Charging Hub Accessories	920 g 15 m/s (Normal Mode) 2 m/s 45 mins 32 km GPS+Galileo+BeiDou+GLONASS (GLONASS is supported only when the RTK module is enabled) 4/3 CMOS Wide Camera 640 × 512 px Thermal Camera Intelligent Flight battery 5000mAh FCC: 15 km CE/SRRC/MIC: 8 km 2.400-2.4835 GHz 5.150-5.250 GHz 5.725-5.850 GHz 4 Antennas, 2T4R Bluetooth 5.1 Screen Resolution 1920×1080 Screen Size 5.5 inches Hard case 4X Pair of Propellers Input:100-240 V (AC Power), 50-60 Hz, 2.5 A Output Power:100 W Output: Max. 100 W (total) Input: USB-C: 5-20 V, 5.0 A Battery Port: 12-17.6 V, 8.0 A Rated Power:100 W Charging Type: Three batteries charged in sequence Standard Accessories
Spare Intelligent Flight Battery	2	Capacity Standard Voltage Max Charging Voltage Type Chemical System Energy Weight Charging Temperature	5000 mAh 15.4 V 17.6 V LiPo 4S LiCoO2 77 Wh 335.5 g 5° to 40° C (41° to 104° F)
Memory Card	3	Memory Card	Samsung EVO Plus 512GB V30 microSDXC

			SanDisk Extreme Pro 512GB V30 A2 microSDXC SanDisk Extreme Pro 512GB V30 A2 microSDXC
Spare Charger	1		Input 100-240 V (AC Power), 50-60 Hz, 2.5 A Output Power 100 W Output Max. 100 W (total) When both ports are used, the maximum output power of each interface is 82 W, and the charger will dynamically allocate the output power of the two ports according to the load power.

Note: Please include standard term and condition including warranty of 1 year and after sale service of 7 years.

8MP 48x Starlight Laser AI Network Positioning System

Annex-D

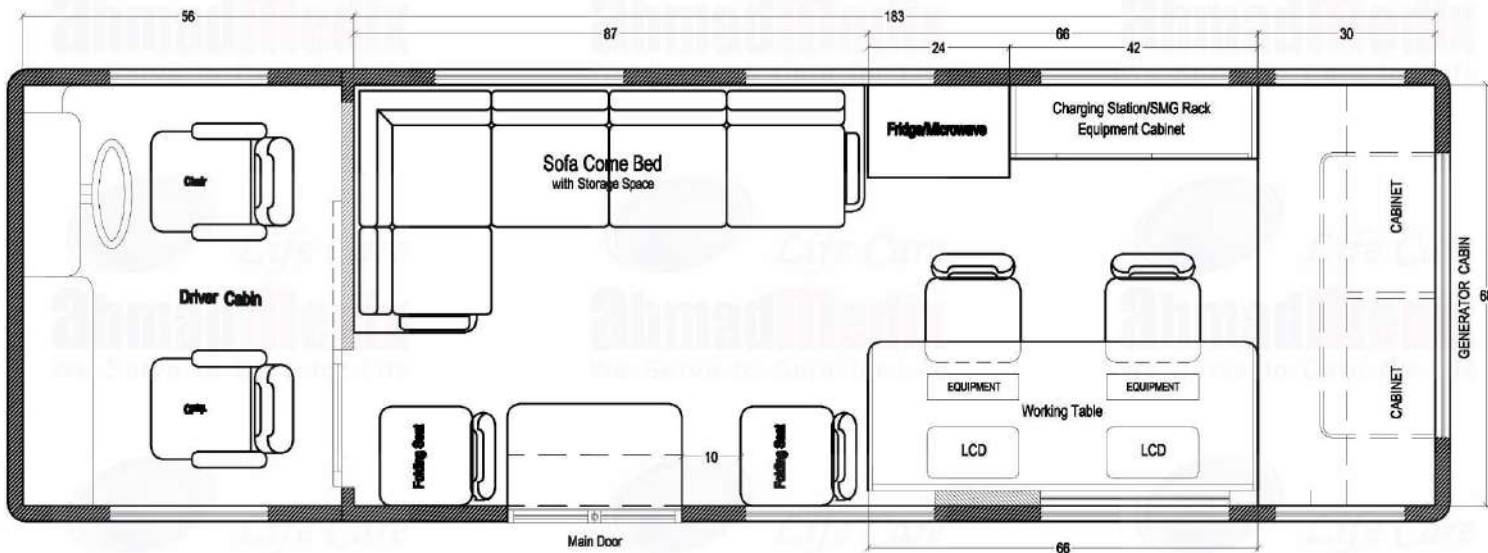
Camera	
Image Sensor	1/1.8" CMOS
Pixel	8 MP
Max. Resolution	3840 (H) × 2160 (V)
ROM	8 GB
RAM	2 GB
Electronic Shutter Speed	1/1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.4
	B/W: 0.0005 lux@F1.4
	0 lux (laser on)
Illumination Distance	1,000 m (3,280.84 ft)
Illuminator On/Off Control	Zoom Prio; Manual; Off
Illuminator Number	1 (laser)
Wiper	Yes
Lens	
Focal Length	6.25 mm–300 mm
Max. Aperture	F1.4–F4.5
Field of View	H: 64.9°–1.8°; V: 38°–1.3°; D: 71.3°–1.9°
Optical Zoom	48×
Focus Control	Auto; semi-auto; manual
Close Focus Distance	0.5 m–2 m (1.64 ft–6.56 ft)
Iris Control	NA
DORI Distance	Detect
	6,000 m (19,685.04 ft)
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless
	Tilt: –45° to +90°
Manual Control Speed	Pan: 0.1°/s–160°/s
	Tilt: 0.1°/s–60°/s
Preset Speed	Pan: 160°/s; Tilt: 60°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Preset; Pattern; Tour; Scan
PTZ Protocol	DH-SD
	Pelco-P/D (auto recogniton)
Intelligence	
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.

IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification.
Face Recognition	Yes
Video	
Video Compression	H.265; H.264M; H.264H; MJPEG; Smart H.265; Smart H.264
Streaming Capability	3 streams
Resolution	8M (3840 × 2160); 4M (2560 × 1440); 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 8M/4M/1080p/960p/720p (1–25/30 fps)
	Sub stream 1: D1/VGA/CIF (1–25/30 fps)
	Sub stream 2: 1080p/960p/720p (1–25/30 fps)
Bit Rate Control	CBR; VBR
Video Bit Rate	H.264: 3328–16384 kbps
	H.265: 1280–9984 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Defog	Optical
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥55 dB
Audio	
Audio Compression	G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; PCM
Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP; HTTPS; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; QoS; FTP; UPnP; ICMP; SNMP; IGMP; RTP; PPPoE; RTMP; TCP
Interoperability	ONVIF (Profile S&G&T); GB/T28181; CGI
Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB); NAS
Browser	IE 7 and later versions
	Chrome 45 and later versions
	Firefox 52ESR and earlier versions
	Safari
Management Software	Smart PSS; DSS; IVSS

Mobile Client	iOS; Android
Port	
Analog Output	1 channel (CVBS output, BNC)
RS-485	1 (baud rate: 1200 bps–115200 bps)
Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT, bare wire)
Two-way Audio	Yes
Alarm Input	7 (on-off value input: 0–5 VDC)
Alarm Output	2
Alarm Linkage	Capture; preset; tour; pattern; recordings on SD card; alarm digital input; client E-map; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; decoder state detection; memory card state detection; memory space detection; power exception detection
Optical Fiber	100 M single fiber FC
	Specifications: 1310 nm TX/1550 nm RX
	Transmission distance: 20 km (12.43 mi)
Power	
Power Supply	36 VDC, 5 A (± 25%)
Power Consumption	Basic: 22 W
	Max.: 63 W (illuminator + wiper + PTZ)
Environment	
Operating Temperature	–40 °C to +70 °C (–40 °F to 158 °F)
Operating Humidity	≤95%
Protection	IP67; TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Casing	ADC12
Product Dimensions	344.6 mm × 252.2 mm × 499.8 mm (13.57" × 9.93" × 19.68") (L × W × H)
Net Weight	15.4 kg (33.95 lb)
Gross Weight	23.7 kg (52.25 lb)

(Annex-E)

Layout of Command and Control Interior:



- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- Accessories (if applicable) shall be the part of final consignment.

SSP/Intelligence
CTD HQ, Lahore

AD/Admn
CTD HQ, Lahore

OS/Procurement
CTD HQ, Lahore

OS/R&A
CTD HQ, Lahore

Ex-Project Development Specialist
CPO, Lahore
(Co-Opted Member)

IT EQUIPMENTS / SOLUTION FOR INTERROGATION ROOM

Sr.No.	Item	Qty.
1.	NVR Details Specification Attached (Annex-A)	01
2.	Camera Details Specification Attached (Annex-B)	04
3.	Microphone + Speaker Set Details Specification Attached (Annex-C)	02
4.	AC (Inverter) Details Specification Attached (Annex-D)	02
5.	UPS (2.5 KW) 24 V Solar. Details specification attached (Annex-E)	01
6.	Battery 150Ah Dry Details specification attached (Annex-F)	02
7.	LED Smart TV (43 Inches) Details Specification Attached (Annex-G)	02
8.	HDMI 5 meter 4 K Supported	04
9.	Tool Less I.O	05
10.	Ethernet cable 305 meter Cat-6	01
11.	Rj45 Connectors one box Cat-6 Pure Copper	01
12.	Power Cables	04
13.	Extension 5 meter	02
14.	08 Port Gigabit network Switch D-Link	01

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
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- One year warranty from the date of installation / configuration / activation.
- Accessories (if applicable) shall be the part of final consignment.

Annex-A

NVR		
Sr #	Type	Specifications
1.	Resolution Support	Support for high-resolution cameras, such as 1080p or 4K, to ensure clear video footage.
2.	Compression Technology	H.265 or H.265+ compression for efficient use of storage space without compromising video quality
3.	Hard Drive Type:	Support for surveillance-grade hard drives (e.g., WD Purple) designed for continuous recording and durability.
4.	RAID Support:	RAID configurations for data redundancy and increased reliability.
5.	Bitrate and Frame Rate Control:	Adjustable bitrate and frame rate settings to balance video quality and storage requirements.
6.	Network Connectivity:	Gigabit Ethernet ports for fast and reliable network connectivity.
7.	Remote Viewing and Mobile App Support:	Compatible with mobile apps for remote viewing on smartphones and tablets.
8.	Backup Options:	USB ports for local backup to external drives or other storage devices.
9.	ONVIF Compatibility:	Compatibility with ONVIF (Open Network Video Interface Forum) standards for interoperability with various IP cameras.
10.	Accessories	Standard installation accessories

Pin Hole Camera

Specification (Pin Hole Camera)	Description
Lens Type	Fixed pinhole lens with a small aperture
Resolution	HD (720p) or Full HD (1080p)
Low Light Performance	Infrared (IR) capability for low-light conditions
Frame Rate	30 frames per second (fps)
Power Supply	Standard electrical outlet or Power over Ethernet
Power Consumption	Low power consumption for continuous operation
Field of View (FOV)	Wide-angle for comprehensive coverage
Mounting Options	Flexible mounting options for various hiding spots
Connectivity	Compatible with standard surveillance systems
Recording and Storage	Support for local storage (e.g., microSD cards)
Audio Capabilities	Built-in microphone
Wireless Capabilities	Wireless connectivity with secure protocols

Micro-Phone	
Specification (Wireless MIC)	Description
Type of Microphone	Omnidirectional
Wireless Technology	Bluetooth, RF
Operating Range (Without Obstacle)	Up to 100m
Polar Pattern	Omnidirectional
Transmission Type	2.4GHz digital frequency
Connection Type	Type of wireless connection (e.g., Bluetooth pairing)
Power Requirements	In-built lithium-ion battery/Charging contacts/ USB-C charging port
Battery Life	TX:Approx.10 hours; RX:Approx.6 hours
Frequency Range	20Hz-20kHz
Signal-to-Noise Ratio (SNR)	>85dB
Dynamic Range	Wide dynamic range to capture soft and loud sounds
Built-in Filters	Presence of low-cut or high-pass filters for noise reduction
Durability	Robust construction for long-lasting performance
Compatibility	Compatible with all type of recording devices or systems

Annex-D

AC 1.5 Specifications:	
TECHNICAL	
BTU Capacity	18000 BTU
Compressor W	5300
Auto Voltage Adaption	150V-260V
Low Voltage Startup	150V
Eco Friendly Refrigerant	R410A
Energy Efficient Class A	60% Electricity saving
COOLING	
BTU/H Capacity (H/S/L*)	19100/17750/5118
Output Capacity (W) (H/S/L*)	5600/5200/1500
Power Input (W)(H/S/L*)	2100/1520/390
Energy Efficiency Ratio (EER)	3.6
HEATING	
BTU/H Capacity (H/S/L*)	22550/19600/4260
Output Capacity (W) (H/S/L*)	6600/5750/1450
Power Input (W)(H/S/L*)	2200/1580/390
Energy Efficiency Ratio (EER)	3.6

Annex-E

UPS (2.5 KW) 24 V Specifications:	
TECHNICAL	
Capacity (Watts)	2500 Watt
VA	2500
Solar Charger Type	MPPT
Max. Solar Input Power	1440 watt
Max. Solar Input Current	48 A
Max. Solar Input open circuit voltage	102 volt DC
Max. AC Charge Current	20 Ampere
Max. Charge Current	65 Ampere
Max. Solar Charge Current	65 Ampere
MPP Operating Charging Current	30 ~ 80 VDC
Storage Temperature	-15 to 60 Degrees C
Operating Temperature	-10 to 50 Degrees C
Auto Charge	Yes
Auto Restart	Yes
Touch LCD	Yes- 4.3 inches
Output Power Factor	1.0
Anti-Dust Kit	Yes
Wifi	Yes
Waveform	Pure sine wave
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For PC), 90-280 VAC (For All Home Appliances)
Voltage	120V or 230V AC \pm 5%
Waveform	Pure Sinewave
Voltage Regulation	230 VAC (Battery Mode)
Surge Power	5000 VA
Efficiency	90% – 93%
Transfer Time	10 ms (For PC), 20 ms (For All Home Appliances)
N.W (KGS)	7.2
Dimensions	3.66 x 11.41 x 13.97 (D x W x H) inches

Annex-F

Battery 150Ah Dry Specifications	
Battery	Dry Cell
Nominal Voltage	12V
Rated Capacity)	150Ah (10hour rate) to 1.80V/cell @25OC(77OF)
Typical Weight	52.0kg
Internal Resistance	Approx 3.91mΩ
Operating Temperature Range	Operation(maximum) : 40 to 55 – 40 to 131 Operation(recommended) : 15 to 25 59 to 77) Storage : – 20 to 40 – 4 to 104
solar battery charger	
Float Voltage	2.25V/ cell @25 (77F
Recommended Maximum Charging Current Limit	37.5A
Equalize and Cycle Service	2.35V~2.40V/ cell @25 (77)
Self Discharge	The residual capacity is above 90% after 90 days storage(25 / 77 solar battery charger
Terminal	M6 Female
Terminal Hardware Torque	10 ± 1.0Nm
Container Material	ABS (V0 optional)

LED 43”**General Features**

Hands free Voice Control
 4K-Ultra-HD
 Android TV
 Bluetooth
 Chrome-Cast-Built-In
 Google-Assistant
 Google-Play-Store
 MEMC
 Netflix
 YouTube
 HDR10
 Dolby Audio
 Dolby Vision

General Specifications

- **Size** 43"
- **Chassis**
RT51 M Platform
- **CPU**
64-bit A55×4~1.3GHz
- **GPU**
G31x2 800MHz
- **OS**
Android R
- **RAM/ROM**
DDR3-1866: 2G Bytes
- **UI Style**
Android TV UI & TV UI
- **Power Consumption**
85W
- **Certification**
CB, Dolby Audio, Dolby Vision, HDMI, CTS (Google Official Certification), Netflix

Display

- **Display Type**
LED UHD Smart DTV
- **Display Resolution**
3840×2160
- **UHD Support**
Yes
- **HDR**
HDR10
- **HDR Support**
Yes
- **High Color Gamut**
≥90% DCI-P3(CIE 1976) Coverage
- **Micro Dimming**
1296 zones
- **Brightness (cd/m2)**
260 (typ.)
- **Contrast Ratio**
5000:1 (typ.)
- **Response Time (G to G)**
9.5 (typ.)
- **Colors**

- 1.07G (8 bit + FRC)
- **Refresh Rate**
60
- **Dynamic Contrast**
Yes
- **Backlight Adjustable**
Off, ECO, Brightness+

Audio

- **Speaker Type**
Integrated Speaker Boxes (Bottom Side)
- **Audio Power Output (THD=7%**
2 x 9.5W
- **Dolby Decoder**
MS12Z
- **Dolby Atmos**
Yes
- **DTS**
Yes

Connectivity

- **Internet Link**
2.4GHz/5GHz, dual-band Wi-Fi 802.11 b/g/n 2T2R Ethernet Network (RJ45)
- **HDMI**
Yes
- **HDMI&HDCP Version**
HDMI1.4 & HDMI2.1, HDCP1.4 & HDCP2.2
- **HDMI Support**
Yes
- **Cable Port**
Yes
- **USB**
Yes
- **A/V IN**
Yes
- **Headphone**
Yes

Warranty / Guarantee

- **TV Parts**
2 Years (Panel, Parts, Or home service, except breakage of panel and electric spark and burnt) by OEM
- **One-year warrantee by seller.**

Authorization:

The bidder/supplier must bear a verifiable Authorization letter from OEM.

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- One year warranty from the date of installation / configuration / activation.
- Accessories (if applicable) shall be the part of final consignment.

STANDARD SPECIFICATION FOR LAW ENFORCEMENT DRIVER TRAINING SIMULATOR

The turn-key unit that will delivered, installed, and tested at the site or in a mobile unit. When used in conjunction with a training curriculum, the simulator enables the training, development, and testing of Emergency Vehicle Operators in the following skills:

- Situation awareness
- Judgment
- Decision-making
- Multi-Tasking
- Student Driving Simulator (Cab)
- Vehicle/Simulation Computer Platform
- Virtual World Graphics Generator
- Scan, Assess and Reactions
- Low occurrence, high risk vehicle maneuvering
- Individual and Team Skill Building
- CODE3 and High Speed Pursuits
- Visual Display System
- Aural Cue (Sound) System
- Instructor Operator Station (IOS)

The simulator is delivered with all the necessary hardware, software, and cabling to operate as a stand-alone full-task training device.

Dynamic control of the simulation is via the Instructor Operator Station (IOS) or an optional wireless hand-held remote control tablet. The IOS is delivered configured with a comprehensive suite of training curriculum scenarios, vehicle dynamics models, and environmental and special effects.

The simulator Student Training Station (STS) compartment is a critical component in getting student “buy-in.” The close replication of the FAAC STS driving compartment to the real vehicle is fundamental to student emersion.

The standard production cab dashboard is in keeping with the Police Interceptor (PI) vehicle. The dashboard panel will utilize instruments, switches and/or controls with the same form and function as the vehicle. Dash mounted switch controls are list below

SWITCH CONTROLS

Component	Active	Replicated (Inactive)
Dash Mounted Controls/Switches		
a) Driving Light Switch	✓	
b) Start/Stop Push Button	✓	
c) Vent Air (ambient air only)	✓	
d) Mirror Adjustment control	✓	
e) Overhead View switch	✓	

The instrument panel uses a reconfigurable graphics-based LCD panel. Each vehicle model has a unique graphics model that replicates the real vehicle. This graphics model is loaded in sympathy with the vehicle model selected. Primary instrumentation provided is listed in Table 2-2. Not all instrumentation may be available in all dash types and will be dependent on the fit and functionality of the real vehicle.

PRIMARY GAUGES AND INDICATION LIGHTS

Component	Active	Replicated (Inactive)
Gauges		
f) Speedometer (MPH/KPH)	✓	
g) Odometer		✓
h) Tachometer	✓	
i) Water Temperature Gauge	✓	
j) Fuel Gauge (does not deplete)	✓	
Indicator Lights		
k) L/R Turn Signal	✓	
l) Check Engine	✓	
m) Low Oil Pressure	✓	

n) Low Amperage	✓	
o) High Beam	✓	
p) Seat Belt	✓	
q) Parking Brake	✓	
r) ABS	✓	
s) Low Fuel	✓	
t) High Engine Temp	✓	

Steering Wheel/Column

A replica steering column and vehicle-type steering wheel is provided and will include the following components and functions as listed

DASHBOARD CONTROLS

Component	Active	Inactive
a) Steering Wheel	✓	
b) Gear Selector Lever	✓	
c) Horn	✓	
d) Turn Signal Lever	✓	
e) Windshield Wiper Switch	✓	

VEHICLE MODELING

Driver Training Simulators can be configured in various ways to meet the most exacting training requirements. The simulator can be configured to replicate numerous vehicle types.

-
- Siren control model, including cut-off, wig-wag, and headlight modulation
- Engine RPM, generated torque, and throttle position are fed into the engine sound model
- Oil pressure, fuel level, engine coolant temperature, and tire air pressure are maintained and fed into the driveline model such that changes in their respective states (due to an instructor trigger or scripted failure event) will affect the behavior of the vehicle as well as gauge and indicator readings.
- Dashboard and console switches are read, with their effect on the visual and aural environment modeled after the specific vehicle selected as part of the scenario

VEHICLE FAULTS

a) Steering Axle Tire Failure:	Adverse steering effects will be induced with corresponding sound effects.
b) Brake Failure:	Brakes stop working immediately
c) Engine Overheat:	Hot engine indication, engine shuts off
d) Oil Pressure Drop:	Drop in oil pressure indication followed by engine failure
e) Check Engine Light	Indicator light with no vehicle response
f) Fuel Leak	Loss of Fuel and gauge indication

Vehicle Sounds

A High-Fidelity sound system is used to generate the sounds and noises that would typically be heard from the driver's seat of the simulated vehicle.

Crash/Collision Detection

Any collision between the trainee's vehicle and other objects, such as vehicles, buildings, pedestrians, etc., will provide the appropriate "collision" result. In addition to checking for collisions with other objects, the collision model produces forces which are imparted to the own ship and

which cause reactions in both the vehicle

dynamics and the object collided with, if it is a movable model. Collisions are used to assess damage to the ownership. There are four (4) levels of collision.

Display System

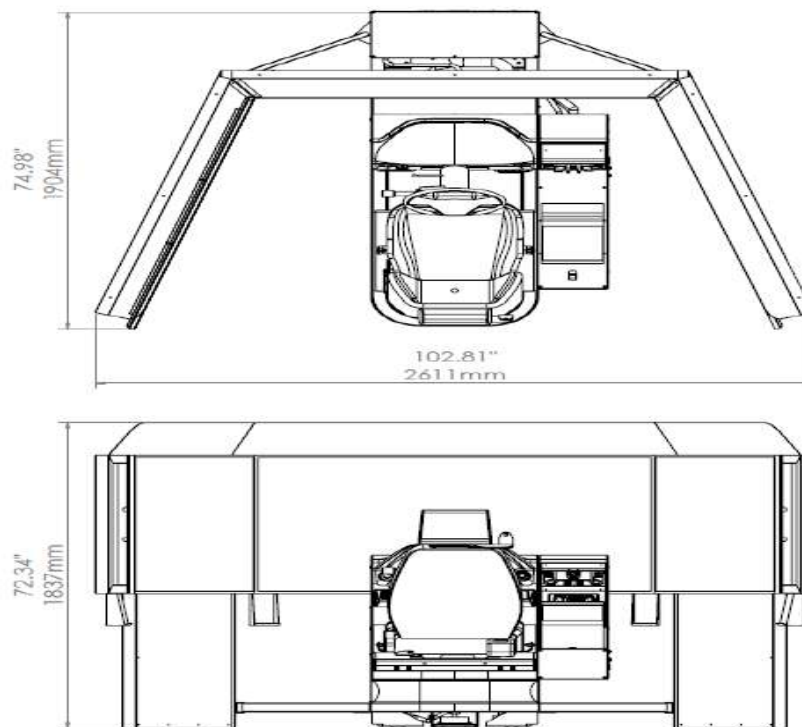
The Out-The-Window Visual scene provides the view seen outside of the vehicle windows. In the virtual world, the ability to display a true, undistorted visual scene is a factor of two components: the Image Generator scene and the physical Field-of-View (Display System

Display Feature	Value
Display Configuration	3 Channel Wide Screen (16:9) LED
Diagonal Viewing Area	3 x 65 inch monitors
HFOV	205 degrees
Display Refresh Rate	60 Hertz on each screen
Native Display Resolution	4K

The Instructor Operator Station (IOS) is a PC-based Graphical User Interface (GUI) that allows the instructor to control the simulation

Environmental Effects

Control	Parameter
a) Time Of Day*	i) Bar slider
b) Weather Effects	i) Fog ii) Rain iii) Snow iv) Dust
c) Traffic	i) Aggressiveness ii) Density
d) Wind	i) Direction ii) Magnitude
e) Road Traction	i) Traction coefficient slider



Purchase is made through authorized dealer having a verifiable Manufacturing Authorization Letter (MAL) from Original Equipment Manufacturer (OEM).

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
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- One year warranty from the date of installation / configuration / activation.
- Accessories (if applicable) shall be the part of final consignment.

WALK THROUGH GATES

Sr.	Description	Specifications
01	Adjustment According to International Standards	Immediate selection of international Security standards. NILECJ, 3Gun TST,3GUN TSE, GA, GD, NIIJ-LO.HCB better or equivalent
02.	No of Zones	60 Multi Zone or better
03.	Sensitivity Level	-99 to + 99 or better 200 Points of Sensitivity or better High sensitivity, Capable to detect from guns, 9mm Bullets to ½ cutter blade or better
04.	Operating Voltage	200 to 230 Volt
05.	Power Consumption	Less Than 100 Volts
06.	Work Environment	Operating Temperature -5C to +55 C or better Storage Temperature -20 C to +70 C or better Humidity: 0% to 90% Non-Condensing IP or better Standard IP 65 Or Higher Visually Seeable IP 65 or better Protection against High Pressure of Water (Rains)
07.	Display Type	Detected Object Quantity Display on Header Panel and detection zone on side panels as well as on front and back
08.	Warranty	Two Year Warranty Period
09.	Password	Password Protection
10.	Special Safety	Harmless for Pacemaker & Pregnant Women
11.	Operation	Manually Operated and remote Optional
12.	Detection	Can Detect Ferrous / nonferrous
13.	DETECTION SPEED	High detection speed 15m/Sec (70 Persons per minute).
14.	Detection	Pinpoint Detection metering signal, indicate the quantity of the Metal (Proportional to Mass of metal)
15.	Alarm	Sound as Well as light Alarm Counter
16.	Counter	Passage inn Passage Out and Alarm Counter
17.	Traffics	Pacing Stop & go Light or Symbol
18.	Power Supply	Fully Automatic 100-240Voltage
19.	Battery Backup	2-4Hours Backup
20.	Indicator	Multi zone Display Bars High Intensity Display Indicator Light Proportional to Mass of Object Detected
21.	Audio able Alarm	High Auto sonic Pitch intensity Alarm signal Proportional to Detection of Object Adjustable alarm Volume and object
22.	Deployment Method	Standalone & Networking Operations
23.	Calibration	Cable Free Automatic Calibration on Startup and Self Diagnostic
24.	User Manual	Complete Set of Operator Manual
25.	Maintenance /Repair Facilities	After Expiry of Warranty Period the vendor Will be responsible

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- Accessories (if applicable) shall be the part of final consignment.

EXPLOSIVE DETECTOR

Sr. No.	Parameter	Specification
1.	The detected explosives	Detect military Explosive, conventional, Homemade and Liquid explosives e.g. TNT, RDX, TENT, NG, HMX ammonia and urea nitrate, Black powder, TPT per oxides and etc.
2.	Identification	Can identify the Type of Explosives
3.	Sampling Mode	Vapour and particle
4.	Testing Sample	Testing samples of at least 03 different kind of explosive will be provided along with each explosive detector
5.	Weight	Not more than 2.5 KG
6.	Response Time	Sampling: Not more than 10 sec Alarm: Not more than 25 sec
7.	Startup time	Not more than 3 minutes
8.	Display	Colour LCD display
9.	Alarm Indication	Visual on LCD and Alarm indication
10.	Data Storage	Capable to store data and export to mass storage
11.	The sensitivity for explosives in particle mode (Gram)	1×10^{-9} or less
12.	The sensitivity for TNT in vapour mode	10^{-10} g/cm ³ or less
13.	Type of battery	Rechargeable battery (should be available in local market)
14.	Battery timing	Not less than 2 hours with 01 spare battery also
15.	The charging time of battery	Not more than 2 hours
16.	Protection level	IP 54 or better
17.	Calibration	Automatic
18.	Operating temperature	0 ^o C to + 50 ^o C
19.	Operating humidity	0 to 90%
20.	Communication	USB, Optional embedded wireless, Window based software
21.	User Manual	Complete set of operating and repair manual (hard and soft copies)
22.	Warranty period	Two years
23.	Maintenance / repair facilities	After expiry of warranty period, the vendor will be responsible to provide the repair facilities up to 10 years Punjab preferably Lahore on market rate
24.	Packing	Explosive Detector should be packed in a packing suitable for long travelling and storage
25.	Model / version	Latest model / version will be supplied

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- One year warranty from the date of installation / configuration / activation.
- Accessories (if applicable) shall be the part of final consignment.

FLOOD LIGHT HEAVY DUTY

Sr. #	Specification
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- | | |
|----|------------------------------|
| 1. | Wide flood light. |
| 2. | 200 watts. |
| 3. | Auto protector driver. |
| 4. | 400 miles 50 X 50 bridge. |
| 5. | High quality sinking system. |
| 6. | Colour temperature 6000k. |
| 7. | Weight ; 6.3 Kg Approx |
| 8. | 01 year warranty. |

- Purchase be made through authorized dealer having verifiable MAL from Original Equipment Manufacturer (OEM) (only for IT / Hi-Tech equipment).
- 5% ± is acceptable in measurements only.
- Installation / configuration shall be the responsibility of the firm.
- One year warranty from the date of installation / configuration / activation.
- Accessories (if applicable) shall be the part of final consignment.