

HEAVY INDUSTRIES TAXILA
SUPPLY CHAIN MANAGEMENT DIRECTORATE

Subj: **CORRIGENDUM – Tender Inquiry no. 5081/26-27/IT-9002/Exp/FOR-B/SCM dated 12 August 2026 Due on 7 September 2026**

1. Under mentioned Tender Inquiry published on PPRA website may please be replaced as under:

a. **Section VI – Scope of Supply - Annexure F**

FOR Existing

READ **“Annexure A to this letter (attached)”**

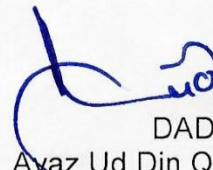
b. **Extension in Date of Opening**

FOR 7 September 2026

READ **21 September 2026**

2. All other terms and conditions of subject tender inquiry will remain unchanged.

To: Government of Pakistan
 Public Procurement Regulatory Authority
 (Cabinet Division) Federal Bank for Co- operative
 Building 1st Floor Sector G-5/2 near SBP,
 Islamabad.

 AWM
 DAD (Proc)
 (Engr. Ayaz Ud Din Qureshi)

Case no. 5081/26-27/IT-9002/Exp/FOR(B)/SCM dated 01 Sep 2025

Copy to:

Regn & Tendering Cell, SCM Dte

NATIONAL STANDARD PROCUREMENT DOCUMENTS

Procurement of Expendable Items through Open Framework Agreement (*Pre-Qualification*)

(National Competitive Bidding)



SUPPLY CHAIN MANAGEMENT DIRECTORATE HEAVY INDUSTRIES TAXILA

Pre-Qualification Tender Number:
5081/26-27/IT-9002/Exp/FOR-B/SCM dated 12 August 2026

Bid Submission Date / Time: 21 September 2026 at 10:30 AM

Bid Opening Date / Time: 21 September 2026 at 11:00 AM

*Feel free to contact for any query regarding details of
items as well as Clauses*

Brief of the Document

Procurement Notice -

The attached template is the Invitation for Prequalification of Suppliers willing to sign framework agreement with the HIT for provision of **Expendable Items**, in accordance with the provisions of the agreement.

Prequalification Document (Procurement of Expendable Items through Framework Agreements)

PART 1 – PREQUALIFICATION PROCESS

Section I - Instructions to Applicants (ITAs)

This Section contains detailed information for preparing and submitting the Applications for Prequalification, in addition to information on opening and evaluation of the Applications.

Section I contains provisions that are to be used by the HIIT without modification.

Section II - Prequalification Data Sheet (PDS)

This Section contains provisions that supplement the ITA (in Section-I), and are specific to respective Prequalification Proceedings.

Section III - Qualification Criteria and Requirements

This Section prescribes the methodology, criteria, and requirements to be used to determine the capacity and capability of the Applicants for the supply of **Expendable Items** and related services in accordance with the requirements of the HIT, with an objective to prequalify them for Invitation to Bid(s), and sign the framework agreement(s) with the selected bidder(s), in case of open Framework Agreement(s) for the purpose of awarding Call off Contracts.

Section IV - Application Forms

This Section contains Application Submission Form and other allied forms required to be submitted with the Application.

Section V - Eligible Countries

This Section contains information regarding eligible countries in accordance with the Policy of the Federal Government.

PART 2 -- SUPPLY REQUIREMENTS

Section VII – Schedule of Requirements

This Section includes a brief description of the **Expendable Items** and Related services including provisional estimate of the required volume and/or quantity, Technical Specifications and Drawings (if applicable), and Delivery and Completion Schedules.



Invitation for Prequalification

EXPENDABLE ITEMS

HIT TAXILA

1. The HIT *intends to apply for funds from the Government of Pakistan* toward the expenditure of the Procurement of Expendable Items, and intends to apply part of the proceeds toward payments under the contract or contracts for Supply of **Expendable Items** to HIT.
2. The HIT intends to prequalify suppliers for Invitation to Bid(s), and sign the framework agreement(s) with the selected bidder(s) subsequent to bidding process in case of Open Framework Agreement(s).
3. The objective of the intended Open framework agreement(s) is the on-demand supply of Expendable Items at *HIT Taxila* through subsequent Call-off Contract(s) with successful bidders, and the purpose of this Prequalification Notice is to provide the very basic information to enable the potential applicants to decide whether or not to respond to this Prequalification Notice.
4. Only the prequalified applicants shall be entitled to participate in the procurement proceedings, and it is expected that the Invitation to Bids will be made to the Prequalified Applicants and Open Framework Agreement(s) will be signed between] the HIT and the successful bidder(s) as Framework Agreement Suppliers for a period of **3 x Years**.
5. Prequalification process is open for all **national** Applicants subject to fulfilling the eligibility requirements mentioned in the respective Prequalification Documents. Interested Applicants may obtain further information from the Procurement Directorate HIT Taxila Cantt at the address below: -
Assistant Director (SCM) Heavy Industries Taxila (SCM Directorate)
PH # 051-9315031 Fax no 051-9315029 during Office hours 0800 to 1600 hours.
6. Complete set of Prequalification Documents in **English** may be downloaded from the website www.ppra.org.pk or www.hit.gov.pk
7. Applications for Prequalification should be submitted in clearly marked technical bid and delivered to the address mentioned below latest by **1030 hours on 21 September 2026**. Late Applications will be rejected.

To: Colonel Muhammad Shuja Chaudhry
 Assistant Director (SCM), SCM Directorate
 Gate No 05, Heavy Industries Taxila (Tender Box)
Pre-Qualification Tender Number:
5081/26-27/IT-9002/Exp/FOR-B/SCM dated 12 August 2026
 Tender / Bid Submission Date / Time: **21 September 2026 at 10:30 AM**
 Tender / Bid Opening Date / Time: **21 September 2026 at 1100 AM**

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PREQUALIFICATION

Section I - Instructions to Applicants

A. General	
1. Scope of Application	1.1 In connection with the “Invitation for Prequalification”, the HIT, as defined in Section II (Prequalification Data Sheet abbreviated as PDS), issues this set of Prequalification Documents (PD) to prospective applicants (also hereinafter referred as Applicants) interested in submitting applications (also hereinafter referred as Applications) to determine the capacity and capability of the Applicant(s) for supply of <i>Expendable Items</i> incidental thereto as specified in Section VII (Schedule of Requirements).
2. Source of Funds	2.1 Source of funds is same as referred in Invitation for Prequalification.
3. Fraud and Corruption	3.1 HIT requires that the Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such agreements and contracts. 3.2 The Applicants/Bidders shall permit and shall cause their agents (whether declared or not), suppliers, and their personnel, to permit the HIT to inspect all accounts, records and other documents relating to any, Application/Bid submission, Primary Procurement process, Framework Agreement performance, Secondary Procurement process, and/or Call-off Contract performance (in the case of award of a Call-off Contract), and to have them audited by auditors appointed by the HIT. 3.3 Any communications between the Applicant and the HIT related to matters of alleged corrupt and fraudulent practices must be made in writing or in electronic forms that provide record of the content of communication. 3.4 HIT will reject an application or bid or proposal, if it is established that the Applicant or the Bidder or Prosper was engaged in corrupt and fraudulent practices in competing for the contract. 3.5 HIT will also declare the Applicant as blacklisted in accordance with Public Procurement Rule 19 and predefined standard mechanism.

4. Eligible Applicants	4.1 An Applicant may be a private entity, a state-owned enterprise or institution subject to ITB 4.6, or any combination of such entities in the form of a joint venture (JV) under an existing JV agreement or with the intent to enter into such an agreement supported by a letter of intent. In case of single (private or state-owned entity), it shall be liable for execution of all the provisions of the Framework Agreement (if signed b/w the HIT and the entity), the execution of any Call-off Contract(s) awarded (to the entity) under the Framework Agreement in accordance with the Call-off Contract conditions that apply. In the case of a joint venture, all members shall be jointly and severally liable for the execution of all the provisions of the Framework Agreement (if signed b/w the HIT and the JV), the execution of any Call-off Contract(s) awarded (to the JV) under the Framework Agreement in accordance with the Call-off Contract conditions that apply. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Prequalification process, Bidding process (in the event the prequalified JV submits a Bid) and during the period of framework agreement and contract execution (in the event the JV is awarded the Contract). Unless specified in the PDS, there is no limit on the number of members in a JV. 4.2 An Applicant may apply for Prequalification both individually, and as part of a joint venture, or participate as a subcontractor. If prequalified as a JV only, it will not be permitted to bid for the same contract as an individual entity. Bids submitted in violation of this provision will be rejected. 4.3 An Applicant and any of its affiliates (that directly or indirectly control, are controlled by or are under common control with that entity) may submit its Application for Prequalification either individually, as joint venture or as a sub-contractor among them for the same contract. However, if prequalified only one prequalified Applicant will be allowed to bid for the same contract. All Bids submitted in violation of this provision will be rejected.
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	4.4 Applicants shall be considered to have a conflict of interest, if they participated as a consultant in the preparation of the design or technical specifications or have been hired or proposed to be hired by the HIT for execution of subsequent Framework Agreement(s) or Call off Contract(s). In addition, Applicants may be considered to have a conflict of interest if they have a close business or family relationship with such professional staff of the HIT (or a recipient of a part of the funds) who: (a) are directly or indirectly involved in the preparation of the Prequalification Documents or Bidding Documents or specifications of the Framework Agreement or Call-off Contract and/or the Prequalification or Bid evaluation process of such Contract; or (b) would be involved in the implementation or supervision of such Framework Agreement or Call-off Contract, unless the conflict stemming from such relationship has been resolved throughout the Procurement Process, Bidding process-during the execution of the Framework Agreement and/or Call-off Contract. 4.5 An Applicant that has been declared debarred or blacklisted shall be ineligible to be prequalified to bid or enter into any Framework Agreement or Call-off Contract for such period of time and for such type of procurement for which he has been declared debarred or blacklisted. The list of debarred firms and individuals is available at PPRA's website. 4.6 An Applicant shall provide such documentary evidence for determining the eligibility of the Applicant to the reasonable satisfaction of the HIT.
5. Eligibility (in terms of Nationality)	5.1 Applicants may be ineligible if they are nationals of ineligible countries as indicated in Section V.
B. Contents of the Prequalification Documents	
6. Sections of Prequalification Documents	6.1 This set of Prequalification Documents consists of Parts 1 and 2 which comprise all the sections indicated below, and which should be read in conjunction with any Addendum issued in accordance with ITA 8. PART 1 Prequalification Procedures • Section I - Instructions to Applicants (ITA) • Section II - Prequalification Data Sheet (PDS)

	• Section III - Qualification Criteria and Requirements • Section IV - Application Forms • Section V - Eligible Countries • Section VI - Fraud and Corruption PART 2 Supply Requirements • Section VII – Schedule of Requirements
	6.2 Unless obtained directly from the HIT or downloaded directly from the website link referred in the Invitation for Prequalification, the HIT accepts no responsibility for the completeness of the Prequalification documents, responses to requests for clarification, the minutes of the pre-Application meeting (if any), or Addenda to the Prequalification documents in accordance with ITA 8. In case of any discrepancies, documents issued directly by the HIT or downloaded from the website link shall prevail.
	6.3 The Applicant is expected to examine all instructions, forms, and terms in the Prequalification Documents and to furnish with its application all information or documentation as is required by the Prequalification Documents.
7. Clarification of Prequalification Documents and Pre-Application Meeting	7.1 An Applicant requiring any clarification of the Prequalification Documents shall contact the HIT in writing at the HIT address indicated in the PDS. The HIT will respond in writing to any request for clarification provided that such request is received no later than three (03) days prior to the deadline for submission of the Applications. The HIT shall forward a copy of its response to all prospective Applicants who have obtained the Prequalification Documents directly from the HIT (or through its website link), including a description of the inquiry but without identifying its source. If so indicated in the PDS, the HIT shall also promptly publish its response at the web page identified in the PDS. Should the HIT deem it necessary to amend the Prequalification Documents as a result of a clarification, it shall do so following the procedure under ITA 8 and in accordance with the provisions of ITA 17.2. 7.2 If indicated in the PDS, the Applicant's designated representative is invited at the Applicant's cost to attend a pre-Application meeting at the place, date and time mentioned in the PDS. During this Pre-Application meeting, prospective Applicants may request clarification of the schedule of requirement, the qualification criteria or any other aspects of the Prequalification Documents.

	7.3 Minutes of the Pre-Application meeting, if applicable, including the text of the questions asked by Applicants, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Applicants who have obtained the Prequalification Documents. Any modification to the Prequalification Documents that may become necessary as a result of the pre-Application meeting shall be made by the HIT exclusively through the use of an Addendum pursuant to ITA 8. Non-attendance at the pre-Application meeting will not be a cause for disqualification of an Applicant.
8. Amendment of Prequalification Documents	8.1 At any time prior to the deadline for submission of Applications, the HIT may amend the Prequalification Documents by issuing an Addendum.
	8.2 Any Addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all Applicants who have obtained the Prequalification Documents from the HIT. The HIT shall promptly publish the Addendum at the HIT web page identified in the PDS : Provided that an Applicant who had either already submitted their Applications or handed over the applications to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed Application and submit the revised Application prior to the original or extended Application submission deadline.
	8.3 To give Applicants reasonable time to take an Addendum into account in preparing their Applications, the HIT may at its discretion, extend the deadline for the submission of Applications in accordance with ITA 17.2: Provided that the HIT shall extend the deadline for submission of Applications, if such an addendum is issued within last three (03) days of the Application submission deadline.
C. Preparation of Applications	
9. Cost of Applications	9.1 The Applicant shall bear all costs associated with the preparation and submission of its Application. The HIT will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Prequalification process.

10. Language of Application	10.1 The Application as well as all correspondence and documents relating to the Prequalification exchanged by the Applicant and the HIT, shall be written in the language specified in the PDS . Supporting documents and printed literature that are part of the Application may be in another language, provided they are accompanied by an accurate translation of the relevant passages in the language specified in the PDS , in which case, for purposes of interpretation of the Application, the translation shall govern.
11. Documents Comprising the Application	11.1 The Application shall comprise the following: (a) Application Submission Letter, in accordance with ITA 12.1; (b) Eligibility: documentary evidence establishing the Applicant's eligibility, in accordance with ITA 13.1; (c) Qualifications: documentary evidence establishing the Applicant's qualifications, in accordance with ITA 14; and (d) any other document required as specified in the PDS.
12. Application Submission Letter	12.1 The Applicant shall complete an Application Submission Letter as provided in Section IV (Application Forms). This Form must be completed without any alteration to its format.
13. Documents Establishing the Eligibility of the Applicant	13.1 To establish its eligibility in accordance with ITA 4, the Applicant shall complete the eligibility declarations in the Application Submission Letter and Form ELI-1.1 (eligibility), included in Section IV (Application Forms).
14. Documents Establishing the Qualifications of the Applicant	14.1 To establish its qualifications to perform the contract(s) in accordance with Section III (Qualification Criteria and Requirements), the Applicant shall provide the information requested in the corresponding Information Sheets included in Section IV (Application Forms). 14.2 Wherever an Application Form requires an Applicant to state a monetary amount, Applicants should indicate the Pak Rupee equivalent using the rate of exchange determined as follows: (a) for turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted). (b) value of single contract - Exchange rate prevailing on the date of the contract. 14.3 Exchange rates shall be taken from the publicly available source identified in the PDS. Any error in determining the exchange rates in the Application may be corrected by the HIT.

	14.4 The documentary evidence of the Applicant's qualifications to conclude a Framework Agreement, and/or to perform any Call-off Contract(s) if awarded, shall establish to the HIT satisfaction:
15. Signing of the Application and Number of Copies	15.1 The Applicant shall prepare one set of the original documents comprising the Application as described in ITA 11 and clearly mark it "ORIGINAL". The original set of the Application shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Applicant. In case the Applicant is a JV, the Application shall be signed by an authorized representative of the JV on behalf of the JV and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized signatories. 15.2 The Applicant shall submit copies of the signed original Application, in the number specified in the PDS, and clearly mark them "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.
D. Submission of Applications	
16. Sealing and Identification of Applications	16.1 The Applicant shall enclose the original and the copies of the Application in a sealed envelope that shall: (a) bear the name and address of the Applicant; (b) be addressed to the HIT, in accordance with ITA 17.1; and (c) bear the specific identification of this Prequalification process indicated in the PDS reference ITA 1.1. 16.2 The HIT will accept no responsibility for not processing any envelope that was not identified as required in ITA 16.1 above.
17. Deadline for Submission of Applications	17.1 Applicants may either submit their applications by mail, by courier or by hand. Applications shall be received by the Security Staff at Gate No 5 HIT Taxila Cantt at the address and no later than the deadline indicated in the PDS. When so specified in the PDS. 17.2 If required in accordance with the provisions of ITA 8.3, the HIT will extend the deadline for the submission of Applications, in which case all rights and obligations of the HIT and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended. 17.3 The deadline will be extended in the same manner as that of original Invitation for Prequalification (or the advertisement).
18. Late	18.1 The Procurement Directorate reserves the right to accept

Applications	Applications received after the time for submission of Applications, however subject to the condition that the same is received within the date specified as last date for submission of applications but before the time for opening of the Applications.
19. Opening of Applications	19.1 The HIT shall open all Applications at the date, time and place specified in the PDS. Late Applications shall not be entertained. 19.2 The HIT shall prepare a record of the opening of Applications to include, as a minimum, the name of the Applicants. A copy of the record shall be signed from all Applicant during opening.
E. Procedures for Evaluation of Applications	
20. Confidentiality	20.1 Information relating to the Applications, their evaluation and results of the Prequalification shall not be disclosed to Applicants or any other persons not officially concerned with the Prequalification process until the notification of Prequalification results is made to all Applicants in accordance with ITA 28. 20.2 From the deadline for submission of Applications to the time of notification of the results of the Prequalification in accordance with ITA 28, any Applicant that wishes to contact the HIT on any matter related to the Prequalification process may do so only in writing.
21. Clarification of Applications	21.1 To assist in the evaluation of Applications, the HIT may, ask an Applicant for a clarification (including missing documents) of its Application, to be submitted within a stated reasonable period of time. Any request for clarification from the HIT and all clarifications from the Applicant shall be in writing. 21.2 If an Applicant does not provide clarifications and/or documents requested by the date and time set in the HIT request for clarification, its Application shall be evaluated based on the information and documents available at the time of evaluation of the Application.
22. Responsiveness of Applications	22.1 The HIT may reject any Application which is not responsive to the requirements of the Prequalification Documents. In case the information furnished by the Applicant is incomplete or otherwise requires clarification as per ITA 21.1, and the Applicant fails to provide satisfactory clarification and/or missing information within prescribed time, it may result in disqualification of the Applicant.
23. Margin of Preference	23.1 Unless otherwise specified in the PDS , a margin of preference shall not apply in the Bidding process resulting from this Prequalification.

24. Sub-contractors	24.1 Subcontractors' qualification and experience will not be considered for evaluation of the Applicant. The Applicant on its own (without taking into account the qualification and experience of the Subcontractor) should meet the qualification criteria.
F. Evaluation of Applications and Prequalification of Applicants	
25. Evaluation of Applications	25.1 The HIT shall use the factors, methods, criteria, and requirements defined in Section III, Qualification Criteria and Requirements, to evaluate the qualifications of the Applicants, and no other methods, criteria, or requirements shall be used. The HIT reserves the right to waive minor deviations from the qualification criteria if they do not materially affect the technical capability and financial resources of an Applicant to perform the contract, however subject to the provisions of ITA 27.
	25.2 Subcontractors proposed by the Applicant shall be fully qualified for their parts of the Scope of Supply of the Expendable Items .
	25.3 In case of multiple contracts, Applicants should indicate in their Applications the individual contract or combination of contracts in which they are interested. The HIT shall prequalify each Applicant for the maximum combination of contracts for which the Applicant has thereby indicated its interest and for which the Applicant meets the appropriate aggregate requirements. The Qualification Criteria and Requirements are mentioned in Section III. 25.4 Only the qualifications of the Applicant shall be considered. The qualifications of other related entities such as the Applicant's subsidiaries, parent entities, affiliates, subcontractors or any other firm(s) different from the Applicant shall not be taken into consideration in determining the qualifications of the Applicant.
26. HIT Right to Accept or Reject Applications	26.1 The HIT reserves the right to accept or reject all the Applications, and to annul the Prequalification process at any time, without thereby incurring any liability to the Applicants.
27. Prequalification of Applicants	27.1 All Applicants whose Applications substantially meet or exceed the specified qualification requirements will be prequalified by the HIT.
	27.2 An Applicant may be "conditionally prequalified," that is, qualified subject to the Applicant submitting or correcting certain specified nonmaterial documents or deficiencies to the satisfaction of the HIT.
	27.3 Applicants that are conditionally prequalified will be so informed along with the statement of the condition(s) which must be met to the satisfaction of the HIT before or at the time of submitting their

	Bids.
28. Notification of Prequalification	28.1 The HIT shall notify all Applicants in writing of the names of those Applicants who have been prequalified or conditionally prequalified. In addition, those Applicants who have been disqualified will be informed separately. 28.2 The HIT shall communicate to those suppliers or contractors who have not been pre-qualified the reasons for not pre-qualifying them.
29. Request for Bids	29.1 Promptly after the notification of the results of the Prequalification, the HIT will invite the Bids from all the Applicants that have been prequalified.
30. Changes in Qualifications of Applicants	30.1 Any change in the structure or formation of an Applicant after being prequalified in accordance with ITA 27 and invited to bid (including, in the case of a JV, any change in the structure or formation of any member thereto) shall be subject to the written approval of the HIT prior to the deadline for submission of Bids. Such approval shall be denied if: (a) a prequalified Applicant proposes to associate with a disqualified Applicant or in case of a disqualified joint venture, any of its members; (b) as a consequence of the change, the Applicant no longer substantially meets the qualification criteria set forth in Section III, Qualification Criteria and Requirements; or (c) in the opinion of the HIT, the change may result in a substantial reduction in competition. 30.2 Any such change should be submitted to the HIT before the date of "Invitation to Bids".
31. Constitution of Grievance Redressal	31.1 HIT shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of persons with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending the nature of the procurement. 31.2 Any party or applicant can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC

	well before the application/proposal submission deadline. 31.3 Any Bidder feeling aggrieved by any act of the HIT after the submission of his bid may lodge a written complaint concerning his grievances not later than seven of the announcement of technical evaluation report and five days after issuance of final evaluation report. 31.4 In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings. 31.5 In case, the complaint 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 envelop bidding procedure is adopted. 31.6 The GRC shall investigate and decide upon the complaint within ten days of its receipt. 31.7. Any bidder or the HIT not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the fee as prescribed in "Redressal of Grievance Regulations, 2021". 31.8 The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to Appeal. 31.9 The committee shall call the record from the concerned HIT or the GRC as the case may be, and the same shall be provided within prescribed time. 31.10 The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal. 31.11 The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.
32. Mechanism of	32.1 HIT shall bar for the time prescribed under Rule-19 of the

Blacklisting	Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: i) Involved in corrupt and fraudulent practices as defined under rule-2; ii) Fails to perform his contractual obligations; or iii) Fails to abide by bid securing declaration; 32.1 HIT shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: i) Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules; ii) Fails to perform his contractual obligations; and iii) Fails to abide by the id securing declaration; 32.2 The show cause notice shall contain: (a) precise allegation, against the bidder or contractor; (b) the maximum period for which the HIT proposes to debar the bidder or contractor from participating in any public procurement of the HIT; and (c) the statement, if needed, about the intention of the HIT to make a request to the Authority for debarring the bidder or contractor from participating in public procurements of all the procuring agencies. 32.3 The HIT shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice 32.4 In case, the bidder or contractor fails to submit written reply within the requisite time, the HIT may issue notice for personal hearing to the bidder or contractor/ authorize representative of the bidder or contractor and the HIT shall decide the matter on the basis of available record and personal hearing, if availed. 32.5 In case the bidder or contractor submits written reply of the show cause notice, the HIT may decide to file the matter or direct issuance of a notice to the bidder or contractor for personal hearing.
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	32.6 The HIT shall give minimum of seven days to the bidder or contractor for appearance before the specified officer of the HIT for personal hearing. The specified officer shall decide the matter on the basis of the available record and personal hearing of the bidder or contractor, if availed 32.7 The HIT 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. 32.8 HIT 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 Authority. 32.9 Such blacklisting or barring action shall be communicated by the HIT to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the HIT. 32.10 The bidder may file the review petition before the Review Petition Committee Authority within thirty days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with "Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021". The Committee shall evaluate the case and decide within ninety days of filing of review petition 32.11 The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the
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	decision of the HIT. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit. 32.12 The Authority on the basis of decision made by the committee either may debar a bidder or contractor from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.
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Section II - Prequalification Data Sheet (PDS)

A. General

ITA 1.1	The identification number of the Invitation for Prequalification is: _____ Max Numbers The Procuring Agency is: Procurement Directorate Heavy Industries Taxila The list of Contract is: Supply of <i>Expendable Items</i> – Attached as Annexure “F”
ITA 2.1	The name of the Procuring Agency is: Procurement Directorate Heavy Industries Taxila The name of the Procurement is: Supply of <i>Expendable Items</i> – Attached as Annexure “F”
ITA 4.2	Maximum number of members in the JV shall be: “not limited”
ITA 4.7	A list of debarred firms and individuals is available on the PPRA’s website: http://www.ppra.org.pk

B. Contents of the Prequalification Document

ITA 7.1	For clarification purposes, the Procuring Agency’s address is: SCM Directorate Heavy Industries Taxila Attention: <i>Col Muhammad Shuja Chaudhry</i> Address: Assistant Director (SCM) SCM Directorate, Heavy Industries Taxila City: Taxila Country: Pakistan Telephone: +92 51 9315637 Fax number: +92 51 9315029 Electronic mail address: scm.for_hit@margallahil.com
ITA 7.1 & 8.2	Web page: www.hit.gov.pk
ITA 7.2	Pre-Application Meeting will be held: Nil

C. Preparation of Applications

ITA 10.1	This Prequalification document has been issued in the “ <i>English</i> ”
ITA 11.1 (d)	The Applicant shall submit with its Application, the following additional documents: • <i>Audit Report of Last 3 x FY</i> • <i>Past Experience Contracts With any org or Pvt ltd (Last 3 x Yrs)</i> • <i>Registration Certificate with any org or Pvt ltd</i> • <i>No Blacklisting Certificate</i>
ITA 14.2	The source for determining exchange rates is <i>N/A</i>

ITA 15.2	In addition to the original, the number of copies to be submitted with the Application is: 02 (01 x Original and 1 x Copy)
D. Submission of Applications	
ITA 17.1	The deadline for Application submission is: Date: 21 September 2026 Time: 1030 Hours For Bid submission address is: <i>To: Colonel Assistant Director (SCM) - Tender Document Gate No 05, Heavy Industries Taxila</i> <i>Tel: (051) 9315333 Ext 63217</i> <i>Fax: (051) 9315029</i> <i>E-Mail: scm.for_hit@margallahil.com</i> Prequalification document should be deposit and drop in the tender box placed at Gate no 5, HIT Taxila Cantt. Applicants <i>shall not</i> have the option of submitting their Applications electronically.
ITA 19.1	The opening of the Applications shall be on 21 September 2026 at 1100 Hours
E. Procedures for Evaluation of Applications	
ITA 23.1	A margin of domestic preference <i>shall</i> apply
ITA 31.1	If an Applicant wishes to make a Prequalification related Complaint, the Applicant should submit its complaint, in writing (by the quickest means available, that is either by email or fax), to: Brigadier Imran Nasir Director (SCM) Heavy Industries Taxila, Taxila Cantt Tel: (051) 9315333 Ext 63211 Fax: (051) 9315029 E-Mail: scm.for_hit@margallahil.com
Quantity	Estimated Quantity Per Year
Delivery Period	As and when required by HIT within 3 x Years, Application should supply within 01 Month after issuance of Purchase Order / Call off Order
Packages	Application should quote complete package, those application without quoting complete package will be liable to rejection.
Sample	After opening of Technical Bid, Application should deposit the sample of each item along with detailed specification to Project when intimated by Procurement Directorate.
Price adjustment	After one year, prices may be adjusted on the request of contractor. HIT will formulate a price adjustment Board who will suggest price adjustment. Prices will be fixed for next one year. There can be maximum two price adjustments in open framework agreement of 3 years duration.

Section III - Qualification Criteria and Requirements

This Section contains the methods, criteria, and requirements that the Procuring Agency shall use to evaluate Applications. The information to be provided in relation to each requirement and the definitions of the corresponding terms are included in the respective Annexures.

Eligibility and Qualification Criteria				Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
1. Eligibility				
1.1	Nationality	Nationality in accordance with ITA 4.5	Must meet requirement	Annexure “A”
1.2	Conflict of Interest	No conflicts of interest in accordance with ITA 4.6	Must meet requirement	Application Submission Letter
1.3	Eligibility	Not having been declared ineligible as described in ITA 4.7 and 5.1	Must meet requirement	Application Submission Letter
2. Historical Contract Non-Performance				
2.1	History of Non-Performing Contracts	Not debarred due to any Non-performance of contract or deviation from Bid Securing Declaration in accordance with the provision of Rule-19 of PP Rules or the period of debarment has been over.	Must meet requirement	Annexure “B” Form PER-1
2.2	Pending Litigation	Applicant’s financial position and prospective long term profitability still sound according to criteria established in 3.1 below and assuming that all pending litigation will be resolved against the Applicant	Must meet requirement	Annexure “B” Form PER-1
3. Financial Situation and Performance				
3.1	Financial Capabilities	The audited balance sheets or other financial statements acceptable to the Procuring Agency, for the last 03 years shall be submitted and must demonstrate the current soundness of the Applicant’s financial position and indicate its prospective long-term profitability.	Must meet requirement	Annexure “C” Form FIN – 1
3.2	Average Annual Turnover	Average annual turnover (Average Annual Sales Revenue) from supply of Goods of <i>PKR 30 Mn</i> , calculated as total certified payments received for contracts in progress and/or completed during the last three years.	Must meet requirement	Annexure “C” Form FIN – 2
3.3	Current Contractual Commitments	The Applicant shall also demonstrate, to the satisfaction of the Procuring Agency, that it has adequate sources of finance to meet the cash flow requirements on contracts currently in progress and for future contract commitments.		Annexure “D” Form CON -1
4. Experience				
4.1	General Experience	Experience in supply of Expendable Items for at least the last 03 years	Must meet requirement	Annexure “E” Form EXP –1
4.2 (a)	Specific Experience	(i) Documentary evidence of the Applicant’s qualifications to perform the Contract in accordance	Must meet requirement	

Eligibility and Qualification Criteria				Documentation
No.	Subject	Requirement	Single Entity	Submission Requirements
		with 4.2 (b)(i) below (ii) Technical and Production Capability in accordance with 4.2(b)(ii) as below. (iii) Experience on Packaging, Distribution in accordance with 4.2(b)(iii) below. (iv) Registration Requirement in accordance with 4.2(b)(iv) below.	Must meet requirement Must meet requirement Must meet requirement	

Specific Experience Requirements

The Specific Experience Requirements under 4.2 (b) are as follows:

4.2 (b)(i) Documentary evidence

The following documents must be included with the Application:

Documentary evidence of the Applicant's qualifications to perform the Contract if it's application is accepted:

- (i) that, in the case of an Applicant offering to supply Goods under the Contract that the – Applicant manufactures or otherwise produces (using ingredients supplied by primary manufacturers) that the Applicant:
 - (a) is incorporated in the country of manufacture of the Goods;
 - (b) has been licensed by the regulatory authority in the country of manufacture to supply the Goods;
 - (c) has manufactured and marketed the specific goods covered by this Prequalification Document, for at least two (2) years, and for similar Goods for at least five (5) years;
 - (d) has received a satisfactory certificates issued by relevant regulatory authorities in Pakistan or in case of international bidding, GMP (Good Manufacturing Practice) inspection certificate in line with the [insert the name of institute] certification scheme on [insert the name of respective goods] moving in International Commerce from the regulatory authority (RA) in the country of manufacture of the goods; and has demonstrated compliance with the quality standards during the past two years prior to Application submission;
- (ii) that, in the case of an Applicant offering to supply Goods under the Contract that the Applicant does not manufacture or otherwise produce,
 - (a) that the Applicant has been duly authorized by a manufacturer of the Goods that meets the criteria under (i) above to supply the Goods in the Procuring Agency's Country using the Manufacturer Authorization Form; and

(iii) the Applicant shall also submit the following additional information:

- (a) a statement of installed manufacturing capacity;
- (b) details of on-site quality control laboratory facilities and services and range of tests conducted;
- (c) list of major supply contracts conducted within the last three years.

4.2(b)(ii) Technical and Production Capability

The Applicant shall provide evidence that it has the technical, and production capability necessary to perform the Contract:

- (i) that it has successfully completed or substantially completed at least *[insert number]* similar contracts for supply of the goods and within the last five years. *[The number of similar contracts required should be not less than three and not more than five (normally four), depending on the size and complexity of the subject contract].* Similar contracts are those of approximately the same size and that includes comparable products, e.g., *[insert the names of goods]*.

The goods may have been supplied by the Applicant as a manufacturer or by its agent, with references being submitted to confirm satisfactory performance,

- (ii) that it has achieved an annual average production rate of _____ *[The annual production rate required should be at least equivalent to the quantities specified under the contract]* during the last three years.

4.2 (b)(iii) Experience on Packaging, Distribution and Transportation

The Applicant should provide proof of experience with and knowledge of modes of packing, distribution, and transportation of *[insert the name of respective goods]* similar to those subject to bidding under logistical and climatic conditions similar to the ones in the Procuring Agency's country. It should provide names of countries *[Not applicable for National competitive Bidding]* to which the Applicant has supplied (including packaged, distributed, and transported) products worth at least the amount *[insert the amount]* within the past three years.

4.2(b)(iv) Registration Requirements

The Goods to be supplied under the Contract shall be registered with the relevant authority in the Procuring Agency's country. An Applicant who has already registered its Goods by the time of Prequalification should submit a copy of the Registration Certificate with its Application (subject to subsequent confirmation at Bid submission). An Applicant who has not registered its goods subject of Bidding and wishes to commence the process of registration, should refer to the agency and contact person identified below. *[insert name, address, telephone, e-mail address, and contact persons for registration offices, i.e.,-----]*

If Registration is a requirement in the country of the Procuring Agency, the bidding document for the Procurement of Goods and Related Services stipulates that:

A Bidder who has already registered the goods by the time of Bidding should submit a copy of the Registration Certificate with its Bid.

Otherwise, the successful Bidder, by the time of Contract signing, shall submit to the Procuring Agency

either:

- (a) a copy of the Registration Certificate of the Goods for use in the Procuring Agency's country, or, if such Registration Certificate has not been obtained the applicant may be disqualified;
- (b) evidence establishing to the Procuring Agency's satisfaction that the Applicant has complied with the following documentary requirements in order to register the Goods to be supplied under the Contract: *[insert documentary requirements]*

Section IV - ANNEXURES

Application Submission Letter

Date: *[insert day, month, and year]*
IFP-No. and title: *[insert IFP number and title]*

To: *[insert full name of Procuring Agency]*

We, the undersigned, apply to be prequalified for the referenced IFP and declare that:

- (a) **No reservations:** We have examined and have no reservations to the Prequalification Document, including Addendum(s) No(s), issued in accordance with Instructions to Applicants (ITA) 8: *[insert the number and issuing date of each addendum]*.
- (b) **No conflict of interest:** We have no conflict of interest in accordance with ITA 4.6;
- (c) **Eligibility:** We (and our subcontractors) meet the eligibility requirements as stated ITA 4.1, we have not been suspended by the Procuring Agency based on execution of a Bid/Proposal Securing Declaration in accordance with ITA 4.9;
- (d) **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution];*
- (e) **Not bound to accept:** We understand that you may cancel the Prequalification process at any time without incurring any liability to the Applicants, in accordance with ITA 26.1. Only suppliers or contractors who have been pre-qualified shall be entitled to participate further in the procurement proceedings
- (f) **True and correct:** All information, statements and description contained in the Application are in all respect true, correct and complete to the best of our knowledge and belief.

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

Name: *[insert full name of person signing the Application]*

In the capacity of: *[insert capacity of person signing the Application]*

Duly authorized to sign the Application for and on behalf of: *[insert full name of the Applicant or the name of the JV]*

Address: *[insert street number/town or city/country address]*

Dated: *[insert date the document is signed i.e. day number] day of [insert month], [insert year]*

[For a joint venture, either all members shall sign or only the authorized representative, in which case the power of attorney to sign on behalf of all members shall be attached]

ANNEXURE “A”**Applicant Information Form**Date: *[insert day, month, year]*IFP No. and title: *[insert IFP number and title]*Page *[insert page number]* of *[insert total number]* pages

Applicant's name along with nationality <i>[insert full name]</i>
In case of Joint Venture (JV), name of each member along with nationality: <i>[insert full name of each member in JV]</i>
Applicant's actual or intended country of registration: <i>[indicate country of Constitution]</i>
Applicant's actual or intended year of incorporation: <i>[indicate year of Constitution]</i>
Applicant's legal address [in country of registration]: <i>[insert street/ number/ town or city/ country]</i>
Applicant's authorized representative information Name: <i>[insert full name]</i> Address: <i>[insert street/ number/ town or city/ country]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers, including country and city codes]</i> E-mail address: <i>[indicate e-mail address]</i>
1. Attached are copies of original documents of ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITA 4.5. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITA 4.2. ☐ 2. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

In case of JV, the Applicant's information shall include information on each JV member and letter of intent to form JV or JV agreement, in accordance with ITA 4.2

ANNEXURE “A”

Applicant Information Form

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

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

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

1. Applicant's name			
2. Street Address:	Postal Code:	City:	Country:
3. P.O. Box and Mailing Address:			
4. Telephone Number:			
5. Fax Number:			
6. E-mail Address:			
7. Web Site:			
8. Contact Name:			
9. Contact Title:			
10. Type of Business:			
11. If Other, specify:			
12. Nature of Business:			
13. Year Established:			
14. Dates, Numbers, and Expiration Dates of Current Licenses and Permits:			
15. Current registration with relevant authorities information:			
16. Proof of product and facility registrations with Procuring Agency's country regulatory authority and international agencies [If Applicable]			
17. Name of government agency(ies) responsible for inspecting and licensing of facilities in the country of origin of the raw material and or processing of the goods:			
Date of last inspection:			

18. Quality Assurance Certification (Please include a copy of your latest certificate with the PQ Application):	
19. Production capacity: <i>[insert peak and average production capacity over the last three years in units/day or units/month, etc.]</i>	
20. List of names and addresses of sources of raw material and what products they will be used in:	
21. Proof of raw material product and facility registrations with Procuring Agency's country regulatory authority and international agencies [If Applicable]:	
22. Raw materials tested prior to use:	
23. Presence and characteristics of in-house quality control laboratory	
24. Names and addresses of external quality control laboratories used:	
25. Are all finished products tested and released by quality control prior to release for sale? Yes ___ No ___, If not, why?	
26. List control tests done during production? If so list.	
27. List tests conducted after production and prior to release of product on market:	
28. Are technical documents available in: <i>[Procuring Agency should insert language]</i> Yes No	

ANNEXURE “B”

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

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

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

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

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

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

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

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

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

Manufacturer's Authorization

[The Applicant shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date: *[insert date (as day, month and year) of Application Submission]*
IFP No.: *[insert number]*

To: *[insert complete name of Procuring Agency]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Applicant]* to **submit a Prequalification Application and submit a Bid** the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with the **General Conditions of Contract**, with respect to the Goods offered by the above firm.

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

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

Title: *[insert title]*

Dated on _____ day of _____, _____ *[insert date of signing]*

ANNEXURE “C”

Financial Situation and Performance

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

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

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

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

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

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

1. Financial data

Type of Financial information in (currency)	Historic information for previous 03 years (amount in currency, currency, exchange rate*, PKR equivalent)				
	Year 1 (2023)	Year 2 (2024)	Year 3 (2025)		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					

Cash Flow from Operating Activities					
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* Refer ITA 14 for the exchange rate

3. Financial documents

The Applicant and in case of JV, members of JV shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements, Sub-factor 3.1. The financial statements shall:

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

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

ANNEXURE “C”

Average Annual Turnover (Annual Sales Value)

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

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

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

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

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

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

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

* Refer ITA 14 for date and source of exchange rate.

** Total PKR equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, ITA 3.2.

ANNEXURE “D”

**Current Contract Commitments / Contracts in Progress Form
CON-1**

1. Name of Contract(s)
2. Procuring Agency Contact Information [insert address, telephone, fax, e-mail address]
3. Value of outstanding contracts [current PKR equivalent]
4. Estimated delivery date
5. Average monthly invoices over the last six months (PKR/mon.)

ANNEXURE “E”**Experience in supply of Expendable Items for at least the last 03 years**

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

Section V - Eligible Countries

Eligibility for the Provision of **Expendable Items**

In reference to ITA 5.1, for the information of the Applicants, at the present time, firms and individuals, supply of goods and Related Services from the following countries are excluded from this Prequalification process: Under ITA 5.1: *India & Isrrael*

Section VI – Scope of Supply

Annexure “F”

LIST OF EXPENDABLE STORE

Ser	Part No	Nomenclature	A/U	Specifications	Estimated Quantity Per Year
1.		MICRO POLISHING CLOTH Buehler item no. 40-7218 or equivalent	Nos	a. Type: Micro-polishing cloth pad with PSA backing b. Diameter: 8 inch (203 mm) c. Application: Final-stage metallographic polishing for specimen preparation	20
2.		SILICON CARBIDE DISC — Grit 600	Nos	a. Type: Silicon Carbide (SiC) Abrasive Grinding Disc, PSA backed b. Diameter: 8 inch (203 mm) c. Grit Sizes: 600 (fine)	100
3.		SILICON CARBIDE DISC — Grit 120	Nos	a. Type: Silicon Carbide (SiC) Abrasive Grinding Disc, PSA backed b. Diameter: 8 inch (203 mm) c. Grit Sizes: 120 (coarse)	200
4.		TRANSPARENT POWDER (for Automatic Hydraulic Mounting Press)	kg	a. Type: Thermosetting transparent resin powder for hot compression mounting b. Application: Encapsulation of metallographic specimens in hydraulic mounting press c. Form: Fine granular/powder form	2
5.		NOZZLE RUBBER SUCKER (For Viscometer)	Nos	a. Type: Rubber suction nozzle / bulb for viscometer tube filling b. Material: Natural or synthetic rubber (chemical-resistant grade) c. Application: Drawing fluid into viscometer capillary tubes for kinematic viscosity testing	2
6.		PLASTIC SUCKER (For Pipette)	Nos	a. Type: Pipette filler / rubber or plastic suction bulb b. Material: Polypropylene (PP) or natural rubber c. Application: Dispensing liquids using glass or plastic pipettes	10
7.		UV ABSORBANCE CELL	Nos	a. Type: UV-transparent optical absorbance cell (cuvette) b. Material: Quartz (UV-grade) or UV-transparent acrylic c. Application: Spectrophotometric absorbance measurement in UV-Visible range	2

8.		UT COUPLANT	Kg	a. Type: Ultrasonic Testing (UT) Couplant — semi-solid paste/grease b. Base: Silicone or lithium grease (non-corrosive, non-conductive) c. Form: Semi-solid paste	5
9.		CUT-OFF WHEEL Standard 81EXO, Royal met or Equivalent	Nos	a. Type: Resinoid-bonded reinforced aluminium oxide cut-off wheel b. Size: 350 mm × 2.5 mm × 32 mm bore c. Abrasive: Aluminium oxide (for steel and hard alloys)	40
10.		ZIRCONIUM GRINDING BELT (Custom Size, Grit 80/120)	Nos	a. Type: Zirconia Alumina abrasive grinding belt b. Abrasive: Zirconium alumina (ZA) grain c. Grit: 80 / 120 (medium to medium-fine)	100
11.		ZIRCONIUM GRINDING PAPER — Grit 60, Velcro, Dia 8 inch (200 mm)	Nos	a. Type: Zirconium Alumina abrasive grinding disc, hook-and-loop (Velcro) backed b. Diameter: 8 inch (200 mm) c. Grit: 60 (P60) — coarse	150
12.		DYE PENETRANT CHEMICAL (NDT)	Set	a. Type: Liquid Penetrant Testing (LPT / PT) consumable — Type I (fluorescent) or Type II (visible/red) b. Form: (penetrant, developer, cleaner / remover set) c. Application: Non-destructive surface flaw detection per ASTM E165 / ISO 3452	10
13.		ARGON GAS CYLINDER FILLING (Purity 99.999%, Grade 5)	Cyl	a. Type: Compressed Argon gas — Grade 5.0 (Ultra High Purity) b. Cylinder Pressure: 140 Bar / 2000 PSI	7
14.		JR3A OINTMENT / COOLANT (CNC EDM Wire Cut)	Nos	a. Type: Wire EDM dielectric coolant / ointment b. Form: Semi-solid ointment / paste c. Weight: 2 kg per unit	6
15.		MOLYBDENUM WIRE ROLL (CNC EDM Wire Cut — Ø 0.18 mm, 2000 m)	Roll	a. Type: Molybdenum (Mo) wire electrode for CNC wire-cut EDM b. Diameter: 0.18 mm c. Length per Roll: 2000 m	10
16.		PARTING TOOL INSERT — DNMG 400 (Y08420)	Nos	a. Insert Shape (D): Rhombic (diamond) shape with 55° corner angle b. Clearance Angle (N): 0° (neutral) clearance angle c. Fixing / Chipbreaker (G): Cylindrical fixing hole with countersink; with chipbreaker on one side	30

17.		FACING TOOL INSERT — DNMG 150608 XM518	Nos	a. Insert Shape (D): Rhombic shape with 55° corner angle b. Clearance Angle (N): 0° (neutral) clearance angle c. Fixing / Chipbreaker (G): Cylindrical hole with countersink; chipbreaker on one face	30
18.		RADIUS TOOL INSERT — RCKT 1204 M0 (MN2040)	Nos	a. Insert Shape (R): Round (circular) insert — full 360° cutting edge; no distinct corner angle b. Insert Type (RCKT): Round carbide milling / turning insert with cylindrical fixing hole; TiCN/Al₂O₃/TiN coated c. Application Type: Radius profiling, copy turning, ball-nose profiling, convex / concave surface generation	30
19.		TURNING TOOL INSERT — CNMA 120408-TM	Nos	a. Insert Shape (C): Rhombic (diamond) shape with 80° corner angle b. Clearance Angle (N): 0° (neutral) clearance angle c. Fixing Type (A): Without hole, without chipbreaker — top-clamped, negative insert	30
20.		WELDING ELECTRODE E6013 (2.5 mm)	Kg	a. Type: General-purpose rutile-coated stick electrode (SMAW/MMA) b. Classification: AWS A5.1 E6013 c. Sizes: 2.5 mm diameter	100
21.		WELDING ELECTRODE E6013 (3.2 mm)	Kg	a. Type: General-purpose rutile-coated stick electrode (SMAW/MMA) b. Classification: AWS A5.1 E6013 c. Sizes: 3.2 mm diameter	100
22.		GREEN DISC Cutting (12.5×1×22 mm)	Nos	a. Type: Silicon Carbide (Green) thin cut-off disc b. Sizes: 12.5 mm × 1 mm × 22 mm c. Abrasive: Green silicon carbide (for non-ferrous, stone, ceramics, and hard materials)	400
23.		GREEN DISC Cutting (175×1×22 mm)	Nos	a. Type: Silicon Carbide (Green) thin cut-off disc b. Sizes: 175 mm × 1 mm × 22 mm c. Abrasive: Green silicon carbide (for non-ferrous, stone, ceramics, and hard materials)	100
24.		ELECTRIC CUTTER DISC (14" × 1" × 1/8")	Nos	a. Type: Large - diameter abrasive cut-off disc for electric cutter/chop saw b. Size: 14 inch × 1 inch bore × 1/8 inch thickness (355 × 25.4 × 3.2 mm) c. Abrasive: Aluminium oxide or silicon carbide (material-dependent)	24

25.		PAINT BRUSH (1" to 4")	Set	a. Type: Flat paint brush set; sizes 1" to 4" b. Bristle Material: Natural bristle (for solvent-based) c. Application: Applying primers, Expendable Items, and protective coatings on metal surfaces	1
26.		GRINDING WHEEL FOR METAL — 8" × 1" × 1"	Nos	a. Type: Vitrified bonded bench grinding wheel — Type 1 (straight) b. Size: 8-inch diameter × 1 inch wide × 1 inch arbor bore c. Abrasive: Grey Aluminium Oxide (Al₂O₃) — hard bond for general steel grinding and deburring	10
27.		GRINDING WHEEL FOR TIP — 8" × 1" × 1"	Nos	a. Type: Vitrified bonded bench grinding wheel — Type 1 (straight) b. Size: 8-inch diameter × 1 inch wide × 1 inch arbor bore c. Abrasive: White Aluminium Oxide (Al₂O₃) — soft, cool-cutting grade for HSS and carbide tip grinding	10
28.		PLASMA TIP KIT CONSUMABLE — Miller ICE-27C (Kit No. 222939)	Set	a. Model / Part No.: Miller Plasma Consumable Kit — ICE-27C/T, Part No. 222939 b. Compatible Machines: Miller Spectrum 375, 375 X-TREME plasma cutters with ICE-27C or ICE-27T torch c. Contents: (1) 5 × Plasma Tips (2) 5 × Electrodes (3) 1 × Retaining/Shield Cup (4) 1 × Swirl Ring (5) 1 × O-Ring (6) 1 × Silicone Lube (7) 1 × storage box	6
29.		GRINDING DISC — 5" × 1/4" × 1" (Type 27, Depressed Centre)	Nos	a. Type: Type 27 Depressed Centre grinding disc — for use on right angle grinders b. Size: 5-inch diameter × 1/4 inch (6.35 mm) thick × 7/8-inch arbor bore c. Abrasive: Aluminium Oxide (A) — grain type A24R (24 grit, medium bond hardness R)	30
30.		GRINDING DISC — 7" × 1/4" × 1" (Type 27, Depressed Centre)	Nos	a. Type: Type 27 Depressed Centre grinding disc — designed for severe right angle grinding applications b. Size: 7-inch diameter × 1/4 inch (6.35 mm) thick × 5/8 inch-11 arbor c. Abrasive: Aluminium Oxide (A) — grain specification A24R (24 grit coarse, medium bond hardness)	30

31.		GRINDING DISC — 9" × 1/4" × 1" (Type 27, Depressed Centre)	Nos	a. Type: Type 27 Depressed Centre grinding disc for heavy-duty right-angle grinding b. Size: 9-inch diameter × 1/4 inch (6.35 mm) thick × 5/8 inch-11 arbor c. Abrasive: Premium Aluminium Oxide — A24S specification (24 grit, Type 27 DC)	30
32.		CREALITY K2 PLUS — EXTRUDER KIT	Set	a. Type: Official direct drive extruder kit — dual gear drive with built-in filament break sensor b. Compatibility: Designed exclusively for Creality K2 Plus Combo 3D printer; supports 1.75 mm filament c. Dimensions: 47 × 40 × 23.5 mm	3
33.		CREALITY K2 PLUS — CERAMIC HEATING BLOCK	Set	a. Type: All-metal integrated ceramic heating block — official hotend upgrade kit for Creality K2 Plus b. Design: All-metal integrated design facilitating quick disassembly and convenient replacement c. Compatibility: Designed specifically for Creality K2 Plus 3D printer	2
34.		CREALITY K2 PLUS — UNICORN QUICK SWAP NOZZLE KIT (0.4 mm)	Nos	a. Type: Unicorn quick-swap nozzle kit — copper alloy combined with hardened steel b. Nozzle Diameter: 0.4 mm c. Compatibility: Specifically designed for Creality K2 Plus — provides perfect, hassle-free fit	10
35.		ABS 1.75 mm 3D PRINTING FILAMENT (Black)	kg	a. Type: ABS FDM filament b. Diameter 1.75 mm (±0.02 mm tolerance) c. Colors: Black	10
36.		ABS 1.75 mm 3D PRINTING FILAMENT (White)	kg	a. Type: ABS FDM filament b. Diameter 1.75 mm (±0.02 mm tolerance) c. Colors: White	10
37.		ABS 1.75 mm 3D PRINTING FILAMENT (Desert)	kg	a. Type: ABS FDM filament b. Diameter 1.75 mm (±0.02 mm tolerance) c. Colors: Desert	10
38.		BARREL CLEANING CLOTH — CHINDI / FLANNELETTE	mtr	a. Type: Flannelette fabric cleaning patches for firearm barrel bore cleaning b. Material: Soft cotton flannelette (lint-free grade) c. Application: Patch cleaning of barrel bore using cleaning rod and jag/loop	100
39.		LOCTITE SOLDERING WIRE	Kgs	a. Type: Flux-core solder wire b. Alloy: Tin-Lead (Sn60/Pb40 or Sn63/Pb37) or Lead-Free (Sn99.3/Cu0.7) c. Application: Hand soldering of electronic components and electrical connections	10

Gases

40.		Cylinder for DA Gas	Nos	Make: Shangdong/Hengsheng COO: China Material: Hardened Steel Misc Info: Size: Capacity 6.8 Cu.M at 2000 psi Functionality/worthiness certified from POL	8
41.		Cylinder for Oxygen Gas	Nos	Make: Shangdong/Hengsheng COO: China Material: Hardened Steel Misc Info: Size: Capacity 9.8 Cu.M at 2000 psi Functionality/worthiness certified from POL	22
42.		Cylinder for Argon Gas	Nos	Make: Shangdong/Hengsheng COO: China Material: Hardened Steel Misc Info: Size: Capacity 6.8 Cu.M at 2000 psi Functionality/worthiness certified from POL	20
43.		Halon Gas 1000 Kgs	Kgs	• Chemical Formula: CBrF3 • Molecular Weight: 148.91 g/mol • Purity: Minimum 99.6% (mol/mol) • Acidity: Maximum 3 ppm by mass (as HBr) • Water Content: Maximum 10 ppm by mass • Non-Volatile Residue: Maximum 0.05% • Appearance/ odor: Colorless, gas • Boiling Point: -57.75 oC • Freezing/ Melting Point: -167.78 oC • Vapor Pressure: 1434 kPa (at 20 oC) • Vapor Density: 5.2 (Air= 1), making it heavier than air • Flammability: Non-flammable	1000
44.	A-0824	Nitrogen gas	Cum3		588
45.	A-0821	Acetylene	Cu.m		69.6
46.	A-0825	Oxygen	Cu.m		140
47.	A-0826	Ammonia Gas	Cu.m		3500
48.	A-0827	Freon-22	Kg	Use for Air Compressor of Shop-17 DESCOM	30
49.	A-0829	Freon Gas	Cu.m	Used for AC Compressors	75.6
50.	NIV	Argon CO2 Mixture (Filling of Cylinders)	Nos		200
51.	A-0822	Carbon Dioxide CO2 (IND)	Cu.m	Used for Core/ mould hardning process = 300	59.62

52.	NIV	Oxygen & DA (Acetylene) Cylinder	Cylinders		70
<u>Expendables</u>					
53.		Jublee Clamp	Nos	COO:Pak Material: Stainless Steel Misc Info: Size: 1" Applicable M/C: For Clamping of Pipes	40
54.		Jublee Clamp	Nos	COO:China Material: Stainless Steel Misc Info: Size: ½" Applicable M/C: For Clamping of Pipes	90
55.		Jublee Clamp	Nos	COO:China Material: Stainless Steel Misc Info: Size: ¾" Applicable M/C: For Clamping of Pipes	70
56.		Jublee Clamp	Nos	COO:China Material: Stainless Steel Misc Info: Size: 2" Applicable M/C: For Clamping of Pipes	50
57.	2123	Mask Tape	Nos	Make: 3M COO:USA Misc Info: Size: 48mm x 55M Applicable M/C: For Packing during Painting	1,900
58.		Brush ½"	Nos	Make: Black Cat COO:pak Material: : Natural Animal Hair Misc Info: ½"	44
59.		Paint Roll	Nos	Make: Local COO:Pakistan Misc Info: Size 3"	44
60.		Paint Roll	Nos	Make: Local COO:Pakistan Misc Info: Size 6"	44
61.		Painting brush	Nos	Make: Black Cat COO:Pak Material: Natural Animal Hair with Wooden Handle Misc Info: Size: 1"	30
62.		Painting brush	Nos	Make: Black Cat COO:Pak Material: Natural Animal Hair with Wooden Handle Misc Info: Size: 2"	40

63.		Painting brush	Nos	Make: Black Cat COO:Pak Material: Natural Animal Hair with Wooden Handle Misc Info: Size: 3"	40
64.		Painting brush	Nos	Make: Black Cat COO:Pak Material: Natural Animal Hair with Wooden Handle Misc Info: Size: 4"	40
65.		Writing Brush	Set	Make: Black Cat COO:Pak Misc Info: Set of Various Size Writing Brushes	5
66.		Emery Paper	Nos	COO:china Material: Abrasive Misc Info: No. 100 Size 12"x12"	300
67.		Emery Paper	Nos	COO:china Material: Abrasive Misc Info: No. 150 Size 12"x12"	300
68.		Emery Paper	Nos	COO:china Material: Abrasive Misc Info: No. 250 Size: 12"x12"	575
69.		Emery Paper	Nos	COO:Pak Material: Abrasive Misc Info: No 1 Size: 12"x12"	730
70.		Emery Paper	Nos	COO:Pak Material: Abrasive Misc Info: No 2 Size: 12"x12"	984
71.		Emery Paper	Nos	COO:china Material: Abrasive Misc Info: No 0 12"x12"	455
72.		Emery Paper	Nos	COO:china Material: Abrasive Misc Info: No 3 12"x12"	200
73.		Emery Paper	Nos	COO:china Material: Abrasive Misc Info: No 4 12"x12"	200
74.		Emery Paper	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: No CC220 Size: 12"x12"	12

75.		Hacksaw Double Edge Hand Blade	Nos	Make: Total COO:China Misc Info: 18"	26
76.		Tungsten Carbide Rotary Burr Set	Set	Make: Morse COO:Germany / USA Material: HSS Applicable M/C: Pencil Grinder	10
77.		Battery for power tool	Nos	Make: Stanley COO:USA Material: bty Misc Info: 12V	4
78.		Battery for power tool	Nos	Make: Stanley COO:USA Material: bty Misc Info: 18V	14
79.		Die clockwise with handle	Set	Pref Make: Dormer COO:Brazil Equiv Make: Dormer Material: HSS Misc Info: M14x1.5	1
80.		Die with handle	Set	Pref Make: Dormer COO:Brazil Equiv Make: Dormer Material: HSS Misc Info: M30x2	1
81.		Die Anti clockwise	Set	Pref Make: Dormer COO:Brazil Equiv Make: Dormer Material: HSS Misc Info: M14x1.5	1
82.		Die with handle	Set	Pref Make: Dormer COO:Brazil Equiv Make: Dormer Material: HSS Misc Info: M20x1.5	1
83.		Steel Shot dia 2.5 mm	Kgs	Material: Steel Misc Info: SAE Grade S930 Nominal Diameter 2.5 mm Size Range 2.36 – 2.80 mm Shape Spherical Hardness (Standard) 40 – 50 HRC Optional Hardness Up to 64 HRC Density ~7.4 g/cm ³ Bulk Density ~4.5 – 4.8 g/cm ³ Material Cast Steel	1,600
84.		Steel Shot dia 2.0 mm	Kgs	Material: Steel Misc Info: SAE Grade S930 Nominal Diameter 2.0 mm Size Range 2.36 – 2.80 mm Shape Spherical Hardness (Standard) 40 – 50 HRC Optional Hardness Up to 64 HRC Density ~7.4 g/cm ³ Bulk Density ~4.5 – 4.8 g/cm ³ Material Cast Steel	1,600

85.	46D400	Grease Gun	Nos	Make: Fronius COO:Austria Material: Metal Applicable M/C: Mig Welding Torch 11C019A	2
86.	46D401	Grease Gun	Nos	Make: Fronius COO:Austria Material: Metal Applicable M/C: Mig Welding Torch 11C019A	2
87.	46D409	Grease Gun Fitting	Nos	Make: Fronius COO:Austria Material: Metal Misc Info: Current Rating: 500A Cooling Type: Water Cooled Applicable M/C: Mig Welding Torch 11C019A	10
88.		Rubber Sheet	Nos	Make: Local COO:China Misc Info: Size: 10M x 1M x 10mm Applicable M/C: Water Leakage Test	4
89.		Rubber Sheet	Nos	Make: Local COO:China Misc Info: Size: 10M x 1M x 5mm Applicable M/C: Water Leakage Test	4
90.		Rubber Sheet	Nos	Make: Local COO:China Misc Info: Size: 10M x 1M x 3mm Applicable M/C: Water Leakage Test	4
91.		Rubber Wheel	Nos	Make: Blue Caster COO:Pak Material: Rubber Misc Info: Size: 6" Applicable M/C: Cylinder Trolley	24
92.		Bty cell	Nos	Make: Duracell COO:USA Misc Info: Voltage:1.5 v size: AA	174
93.		Bty cell	Nos	Make: Duracell COO:USA Misc Info: Voltage:1.5 v size: AAA	41
94.	CR2032	Cell	Nos	COO:Pak/China Equiv Make: Mexell Voltage: 3V Misc Info: For Insize Vernier Caliper Applicable M/C: Cell For Insize Vernier Caliper	10
95.		Cup type Grinding Wheel	Nos	COO:Pak Material: Abrasive	9

96.		Grinder Disc 4"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: a. Size: 4 inch (100 mm) diameter with 16 mm or 22.23 mm bore b. Material: Made from Aluminum Oxide or Zirconia for metal grinding c. Grit: 36–60 grit for heavy-duty stock removal d. Backing: Strong fiberglass for safety and stability e. Speed: Supports up to 13,300 RPM (high-speed grinding) Applicable M/C: Angle Grinder 4"	20
97.		Grinder Disc 9"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: a. Size: 9 inch diameter b. Material: Abrasive grit (usually aluminum oxide or silicon carbide) c. Max RPM: Typically around 6,600 - 6,800 RPM d. Thickness: Minimum 10 mm e. Usage: Metal grinding, cutting, and surface smoothing Applicable M/C: Angle Grinder 9"	850
98.		Grinding Disc 5"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: a. Size: 5 inch (125 mm) diameter with 16 mm or 22.23 mm bore and 6mm thick b. Material: Made from Aluminum Oxide or Zirconia for metal grinding c. Grit: 36–60 grit for heavy-duty stock removal d. Backing: Strong fiberglass for safety and stability e. Speed: Supports up to 13,300 RPM (high-speed grinding) Applicable M/C: Angle Grinder 5"	850
99.		Pedestal Course Grinding Wheel	Nos	COO:Pak Material: Abrasive Misc Info: Size: 400x40x127mm Applicable M/C: Pedestal Grinder	3
100.		Pedestal Fine Grinding Wheel	Nos	COO:Pak Material: Abrasive Misc Info: Size: 400x40x127mm Applicable M/C: Pedestal Grinder	4

101.		Spl Grinding Block (34x90x150mm)	Nos	COO:Pak Material: Abrasive Misc Info: Size: 150x90x34xmm Applicable M/C: For Grinding of Turret Bottom Armor Plate	18
102.		Burnishing Emery disc for Angular Orientation Grinding Wheel	Pc	Make: local market COO:china Material: Aluminium oxide,silicon carbonate,ceramic alumina Misc Info: 6mm,8mm,10mm	132
103.		Buffing Disc 4"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: Size: 4-inch diameter Material: Abrasive flaps (usually aluminum oxide or zirconia) Backing: Fiber or plastic backing plate Usage: Grinding, blending, and finishing surfaces Max RPM: Around 13,300 RPM Applicable M/C: Angle Grinder 4"	284
104.		Buffing Disc 5"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: Size: 5-inch diameter Material: Soft cotton or wool fibers Attachment: Velcro or spindle hole for easy mounting Usage: Polishing and finishing stainless steel surfaces Max RPM: Around 3,000 - 6,000 RPM Applicable M/C: Angle Grinder 5"	50
105.		Buffing Disc 7"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: Size: 9-inch diameter Material: Soft cotton or wool fibers Attachment: Velcro or spindle hole for easy mounting Usage: Polishing and finishing stainless steel surfaces Max RPM: Around 3,000 - 6,000 RPM Applicable M/C: Angle Grinder 9"	60
106.		Wire Buffing Disc	Nos	Make: SMT COO:Pak Material: Hard Steel Wire Misc Info: Size: 5" Applicable M/C: Grinder 5"	40

107.		Cutting Disc 5"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: Size: 5" (125mm x 1.2mm x 22mm) Applicable M/C: Grinder 5"	732
108.		Cutting Disc 4"	Nos	Make: SMT COO:Pak Material: Abrasive Misc Info: a. Size: 4 inch diameter b. Material: Abrasive (aluminum oxide or zirconia) c. Thickness: Usually 1.0 - 1.6 mm d. Max RPM: Around 13,300 RPM e. Usage: Cutting metal, stainless steel, and small work pieces Applicable M/C: Angle Grinder 4"	118
109.		Oil Stone	Nos	Make: - COO:Pak Material: Abrasive Misc Info: - Applicable M/C: -	3
110.	A-0554	Granodine No,111 (IND)	Lit	Used for Phosphating process = 9650 580/730HP Eng, VT-4 & T85 Components	400
111.	A-0752	Structural Steel electrodes T-422 DIA 3.2mm	Pkt	Used in welding process of blow holes in cating = 1050 580/730HP Eng, VT-4 & T85 Components	100
112.	A-0753	Structural Steel electrodes T-422 DIA 4mm	Pkt	Used for WWT Plant	10
113.	A-0754	Structural Steel electrodes T-422 DIA 2.5mm	Pkt	Used for WWT Plant	40
114.	A-0861	Silica Sand	Ton	Used In sand moulding of all casting parts.= 2088 TMF & HRF-T Components	27.20
115.	A-0868	Bentonite Clay	Ton	Used In sand moulding of all casting parts.= 2088 TMF & HRF-T Components	11.00
116.	A-0870	Charcoal (Wood)	Kg	Used for hardening 580/730HP Eng, VT-4 & T85 Components	79.8
117.	A-0878	Crucible Graphite No 100	Nos	Used in furnace Metling of non ferrous material.= 840 HRF-T Components	4
118.	A-0895	Chalk Powder	Kg	Used for plushing	35
119.	A-0904	Steel Ingot	Ton	Used in steel casting all steel casting parts = 2110 HRF-T & TMF Components	23.170
120.	A-0919	Emery paper water proof No. 400(England)	Doz	Used for preparation purpose of all plating process Used for job deburing	14.41

121.	A-2201	Emery Cloth No.1/0	Doz		34.38
122.	A-2202	Emery Cloth No.2/0	Doz		5.59
123.	A-2203	Emery Cloth No.3/0	Doz		5.63
124.	A-2205	Emery Cloth No.1	Doz		50
125.	A-2206	Emery Cloth No.1.5	Doz		15
126.	A-2207	Emery Cloth No.2	Doz	Used for job deburing 580/730HP Eng, VT-4 & T85 Components	40
127.	A-2209	Emery Cloth No.3	Doz	Used for job deburing 580/730HP Eng, VT-4 & T85 Components	30
128.	A-2210	Emery paper water proof No 150	Doz	Used for job deburing 580/730HP Eng, VT-4 & T85 Components	5
129.	A-2213	Emery paper water proof No 220	Doz	Used for job deburing 580/730HP Eng, VT-4 & T85 Components	5
130.	A-2214	Emery paper water proof (ENG) No 280	Doz	Used for preparation purpose of all plating process 580/730HP Eng, VT-4 & T85 Components	40
131.	A-2215	Emery paper water proof (ENG) No 320	Roll	Gen use for repair of M/C	10
132.	A-2216	Emery paper water proof (ENG) No 360	Doz	Used for preparation purpose of all plating process	20
133.	A-2219	Emery Polishing Paper	Doz		10.00
134.	A-2289	Cloth Malmal width 34~36"	Mtr		27.15
135.	A-2294	Cloth Flannelette Strip (PAK)	Mtr		28.68
136.	A-2321	Rexine Black	Mtr	Used for Seat cover 580/730HP Eng, VT-4 & T85 Components	10
137.	A-2333	Asbestos rope Ø 10mm	Kg	Used for repair of cranes	15
138.	A-2334	Asbestos rope Ø 13mm	Kg	Used to tie different jobs 580/730HP Eng, VT-4 & T85 Components	50
139.	A2336	Asbestos rope Ø 25mm	Kg	Used to tie different jobs 580/730HP Eng, VT-4 & T85 Components	41.76
140.	A-2341	Tape Insulation Plastic Green	Roll	Used for preparation purpose of all plating process 580/730HP Eng, VT-4 & T85 Components	200
141.	A-2342	Tape Insulation Plastic Yellow	Roll		75
142.	A-2343	Tape Insulation Plastic Red	Roll		60
143.	A-2368	Paronite jointing sheet 3x1500x1500mm	Sheet	Used for repair of M/C Pattern making HRF-T Furnace lining TMF	6
144.	A-2369	Asbestos Sheet 1.75X1000X1000	Sheet	Used for furnace lining	14

145.	A-2370	Asbestos Sheet 3X1000X1000	Sheet	Used for furnace lining	14
146.	A-2371	Asbestos Sheet 5- 6x600x900	Sheet	Used for furnace lining	14
147.	A-2377	Talic Sheet (0.15x1500mm)	Mtr	Used for preparation purpose of plating process	15.31
148.	A-2382	Brush Flate Painting 1" Double Row	Nos	Used for PAINTING OF MACHINERY / EQPT. process	7
149.	A-2384	Brush Flate Painting 2" Double Row	Nos		18
150.	A-2386	Brush Flate Painting 3" Double Row	Nos		15
151.	A-2388	Brush Flate Painting 4" Double Row	Nos	Used for PAINTING OF MACHINERY / EQPT. Process	11
152.	A-2391	Brush Steel Wire 255x55mm 5 Row	Nos	Used for job cleaning	17
153.	A-2392	Brush Brass Wire	Nos	Used for preparation of chrome plating process	8
154.	A-2394	Brush Brass Wire 6 Row	Nos	Used for floor cleaning	12
155.	A-2403	Wiper Rubber Floor Cleaning W/handle	Nos	Used for floor cleaning	25
156.	A-2405	Brush Floor Cleaning W/Handle	Nos	Used for floor cleaning	30
157.	A-2425	Polythen Envelops Transparent	Kg	Used for preparation of chrome plating process 580/730HP Eng, VT-4 & T85 Components	6.54
158.	A-2436	Binding Wire M/S Galvanized Ø 0.45~0.6	Kg	Used for jigging of all plating process580/730HP Eng, VT-4 & T85 Components	16.12
159.	A-2438	Binding Wire M/S Galvanized Ø 1mm	Kg		30.03
160.	A-2439	Binding Wire M/S Galvanized Ø 1.2mm	Kg	Used for HSS Components 580/730HP Eng, VT-4 & T85 Components	21
161.	A-2440	Binding Wire M/S Galvanized Ø 1.5mm	Kg	Used for HSS Components 580/730HP Eng, VT-4 & T85 Components	70
162.	A-2441	Binding Wire M/S Galvanized Ø 1.6mm	Kg	Used for HSS Components 580/730HP Eng, VT-4 & T85 Components	70
163.	A-2447	CopperWire Ø1mm	Kg	Used for jigging of all plating process	2
164.	A-2448	CopperWire Ø 4mm	Kg	Used for jigging of all plating process	14
165.	A-2450	Aluminium Wire Ø 4mm	Kg	Used for jigging of all plating process	2.8

166.	A-2451	Bus bar copper 40±2x5±1	Kg	Used for jigging of all plating process	25.51
167.	A-2464	Wire Gauze Fly Proof	Mtr	Req for Components Basket	24.78
168.	NIV	Wall Poteen	Kg	Used for Turret Grill Components	10
169.	A-2469	Copper Anod 400+5x200+5x6+0. 5 Pure 99.95 %	Sheet	Used for surface plating 580/730HP Eng, VT-4 & T85 Components	10
170.	A-2472	Tin Anode 200x450x4mm Pure 99.95 %	Kg	Used for surface plating 580/730HP Eng, VT-4 & T85 Components	40
171.	A-2473	Zinc Anode 800+0.20x200+0.20 x8+0.20 Pure 99.95 %	Kg	Used for surface plating 580/730HP Eng, VT-4 & T85 Components	400
172.	A-2482	Timber Partal Sleeper	Cuft	Used for wooden plug, wooden pad, wooden pattern & ISR repair work	20
173.	A-2483	Timber Shisham Planks	Cuft	Used for wooden plug, wooden pad, wooden pattern & ISR repair work	25
174.	A-2484	Timber plywood (both side plain)7x4x4mm	Sheet	Used for wooden plug, wooden pad, wooden pattern & ISR repair work	14
175.	A-2485	Timber plywood (both side plain) 8x4x6mm	Sheet	Used for wooden plug, wooden pad, wooden pattern & ISR repair work	10
176.	A-2487	Chip Board 8"x4"x½"	Sheet	Used for HRF-T Strip loading	14
177.	A-2488	Formica	Sheet	Used for ISR repairing work	1
178.	A-2489	Hard Board 8"x4"x4"	Sheet	Used for ISR repairing work	14
179.	A-2490	Soft Board 8"x4"x½"	Sheet	Used for ISR repairing work	1
180.	A-2494	Kail wood	Cuft	Used for pattern making	105
181.	A-2502	Filter Paper	Sheet	Used for Filtration of solution	64
182.	A-2514	Brasso Polish	Tin (Small)	Used for cleaning of Bus bar	8
183.	A-2517	Chalk White	Pkt	Used for Job marking 580/730HP Eng, VT-4 & T85 Components	4
184.	A-2518	Chalk Green	Pkt	Used for Job marking580/730HP Eng, VT- 4 & T85 Components	1
185.	A-2519	Chalk Red	Pkt	Used for Job marking 580/730HP Eng, VT-4 & T85 Components	1
186.	A-2522	Luster Pink bar	Nos	Used for Buffing/polishing 580/730HP Eng, VT-4 & T85 Components	50
187.	A-2523	Vim large Size	Nos	Used for Lime degreasing 580/730HP Eng, VT-4 & T85 Components	40

188.	A-2527	Steel Shot Ø 0.5~1mm	Kgs	Used in Short Blasting 580/730HP Eng, VT-4 & T85 Components	1156.84
189.	A-2528	Steel Shot Ø 1~1.5mm	Kgs	Used in Short Blasting 580/730HP Eng, VT-4 & T85 Components	174
190.	A-2529	Cotton Rags	Kgs	Used for Cleaning of machines	2947.34
191.	A-2536	Dry Cell Pen	Nos	Used in Portable Hardening Tester	18
192.	A-2556	Leather Buffing Wheel	Nos	Used for Buffing/polishing 580/730HP Eng, VT-4 & T85 Components	8
193.	A-2557	Buffing Wheel	Nos	Used for Buffing/polishing 580/730HP Eng, VT-4 & T85 Components	8
194.	A-2558	White Cloth Polishing Wheel	Nos	Used for Buffing/polishing 580/730HP Eng, VT-4 & T85 Components	8
195.	A-2559	Steel Wire wheel	Nos	Used for preparation of Components 580/730HP Eng, VT-4 & T85 Components	6
196.	A-2560	Buffing Polishing Wheel	Nos	Used for Buffing/polishing 580/730HP Eng, VT-4 & T85 Components	8
197.	A-2580	Zip Dishwashing detergent liquid	Nos	Used for washing wax pattern = 4821	23
198.	A-2584	Steel Wire Wheel OD of Wheel	Nos	Used for 580/730HP Eng, VT-4 & T85 Components	1
199.	A-2590	Pig Iron	Ton	Used in All cast iron alloy (oil control ring + seal ring) = 4285 HRF-T, VT-4 Components	3.850
200.	A-2591	Ferro Manganese	Kg	Used in Casting Composition Cast Iron Alloy = 1895 HRF-T, VT-4 Components	512.05
201.	A-2592	Ferro Silicon	Kg	Used in Casting Composition Cast Iron Alloy - 1875 580/730HP Eng, VT-4 & T85 Components	85.54
202.	A-2594	Nickel	Kg	Used in Casting Composition Cast Iron Alloy = 1836 HRF-T, VT-4 Components	10
203.	NIV	Under Coat	Nos	Used for Workers	70
204.	A-2599	Plastic Ball	Kg	Used for Chrome plating 580/730HP Eng, VT-4 & T85 Components	26.45
205.	A-2600	Nail ¾ No 17	Kg	For using of pattern making and wood work	2.1
206.	A-2601	Nail Top Less No 20	Kg	For using of pattern making and wood work	2.1
207.	A-2602	Nail ¾ No-20	Kg	For using of pattern making and wood work	3.5
208.	A-2603	Nail Top Less 1½ inch	Kg	For using of pattern making and wood work	3.5
209.	A-2604	Nail Top Less 1 inch 17 No	Kg	For using of pattern making and wood work	2.1
210.	A-2605	Nail 1 inch No17	Kg	For using of pattern making and wood work	3.5
211.	A-2606	Nail Topless 1½ Inch No 14	Kg	For using of pattern making and wood work	7

212.	A-2607	Nail 1½ No 17	Kg	For using of pattern making and wood work	10.5
213.	Nil	Magnacite Lining Mass	Ton	Used in Furnace Lining. (1 linig for 500 kg furnace approx 350 kg)	8.54
214.	Nil	Cutting Disc (230x3.2x22.2mm)	Nos	Used for Ingot / riser cutting = 7679 TMF, HRF-T (Melting Furnace) Components	579
215.	Nil	Expended metal Lathe 1x9x2000x4000	Sheet	Used for 580/730HP Eng, VT-4 & T85 Components	28
216.	Nil	JB-5AA120 Olympia China Emery Paper (Al-Oxide)	Roll	Polishing & Buffing 580/730HP Eng, VT-4 & T85 Components	8
217.	Nil	JB-5 AA240 Olympia China Emery Paper (Al-Oxide)	Roll	Polishing & Buffing 580/730HP Eng, VT-4 & T85 Components	8
218.	Nil	JB-5 AA320 Olympia China Emery Paper (Al-Oxide)	Roll	Polishing & Buffing 580/730HP Eng, VT-4 & T85 Components	8
219.	NIV	Laser cutting lens cleaning stick	Pkt	Bodor Laser Cutting Machine	7
220.	NIV	Paper Tissue for lens cleaning	Pkt	Bodor Laser Cutting Machine	7
221.	NIV	Cutting Disk 4" Bore 16mm thick 1mm	Nos	Used on fitting works	14
222.	NIV	Steel Shots (S/170)	kg	Used for Shot blasting of investment casting Parts.= 4821	256.73
223.	NIV	Printed Carroagated Container 150x100x100	Nos	Job Packing 580/730HP Eng, VT-4 & T85 Components	874
224.	NIV	Printed Carroagated Container 150x150x100	Nos	Job Packing 580/730HP Eng, VT-4 & T85 Components	489
225.	NIV	Printed Carroagated Container 205x205x150	Nos	Job Packing 580/730HP Eng, VT-4 & T85 Components	524
226.	NIV	Printed Carroagated Container 255x255x150	Nos	Job Packing 580/730HP Eng, VT-4 & T85 Components	557
227.	NIV	Polythén Envalops Transparent Size 7x10"	Kgs	Job Packing 580/730HP Eng, VT-4 & T85 Components	1.04

228.	NIV	Polythen Envalops Transparent Size 6x8"	Kgs	Job Packing 580/730HP Eng, VT-4 & T85 Components	1.04
229.	NIV	Polythen Envalops Transparent Size 5x7"	Kgs	Job Packing 580/730HP Eng, VT-4 & T85 Components	0.68
230.	NIV	Polythen Envalops Transparent Size 4x5"	Kgs	Job Packing 580/730HP Eng, VT-4 & T85 Components	1.04
231.	NIV	Polythen Envalops Transparent Size 9x13"	Kgs	Job Packing 580/730HP Eng, VT-4 & T85 Components	3.46
232.	NIV	3V Lithium Battery CR 2032	Nos	Used for digital vernier calliper	30
233.	NIV	Trox Key T 15	Nos	CNC Job Clamping 580/730HP Eng, VT-4 & T85 Components	12
234.	NIV	Trox Key T 10	Nos	CNC Job Clamping 580/730HP Eng, VT-4 & T85 Components	12
235.	NIV	Trox Key T 08	Nos	CNC Job Clamping 580/730HP Eng, VT-4 & T85 Components	12
236.	NIV	Trox Key T 07	Nos	CNC Job Clamping 580/730HP Eng, VT-4 & T85 Components	12
237.	NIV	Screw 4015-M3.5- 115	Nos	CNC Job Clamping 580/730HP Eng, VT-4 & T85 Components	14
238.	A-2403	Wiper Rubber Floor Cleaning W/Handle Blade Length=420mm	Nos	Shop Floor Cleaning	14
239.	NIV	Polythen Zip Envelops 5"x7"	Kg	Job Packing 580/730HP Eng, VT-4 & T85 Components	2.08
240.	NIV	Polythen Zip Envelops 6"x8"	Kg	Job Packing 580/730HP Eng, VT-4 & T85 Components	2.08
241.	NIV	Polythen Zip Envelops 7"x10"	Kg	Job Packing 580/730HP Eng, VT-4 & T85 Components	2.08
242.	NIV	Polythen Zip Envelops 9"x13"	Kg	Job Packing 580/730HP Eng, VT-4 & T85 Components	2.08
243.	NIV	Dry Cell Battery CR2032	Nos	Calculator, Digital Vernier	35
244.	NIV	Dry Cell Battery alkline 1.5v LR1 No % mercury	Nos	Calculator, Digital Vernier	35
245.	NIV	Structural Steel Electrode	Kg	Used for 580/730HP Eng, VT-4 & T85 Components	93.63
246.	NIV	Grinding Disk 4"	Nos	Used in cutting sec	29
247.	Nil	Wire Spool MS 1.2mm	Nos	MIG Welding Turret Grill VT-4	12
248.	Nil	Liner insulated Rod	Nos	Used for 580/730HP Eng, VT-4 & T85 Components	10
249.	Nil	Gas nozzle	Nos	Welding	10

250.	Nil	Neck liner	Nos	Welding Appendant Seat, VT-4 Components	5
251.	NIV	Welding Rod Dia 3.2mm	Kg	Welding Appendant Seat, VT-4 Components	50
252.	NIV	MS Sheet 4x8x1.5	Nos	Used for 580/730HP Eng Components	25
253.	A-2345	Cotton Tape	Roll	Used for Winding	70
254.	A-2204	Emery Cloth No. 4/0	Doz	Gen use for repair of M/C	2.08
255.	A-2211	Emery Paper Waterproof No. 180	Doz	Job Finishing Bush, Appendant Seat	1.39
256.	A-2304	Thread Cotton No. 04	Kg	Used for Winding & Pipe Sec	1.4
257.	A-2305	Thread Cotton No. 06	Kg	Used in Steam Pipe	1.4
258.	A-2306	Thread Cotton No. 10	Kg	Used in Steam Pipe	1.4
259.	A-2331	Asbestos rope dia 3mm	Kg	Used for Repair of Cranes	3.46
260.	A-2332	Asbestos rope dia 6mm	Kg	Used for Repair of Cranes	3.46
261.	A-2367	Paronite jointing sheet 1.5x1500x1500mm	Sheet	Used for Repair of M/c	14
262.	A-2366	Paronite jointing sheet 0.75x1500x1500m m	Sheet	Used for Repair of M/c	14
263.	A-2505	Fish paper 0.4mm	Kg	Used for Winding	3.5
264.	A-2506	Fish Paper 0.5mm	Kg	Used for Winding	3.5
265.	NIV	Wire Breaded Klinger 1000 Jointing Sheet 3x1500x1500mm	Nos	Used for Gasket for Boiler Doors	4
266.	A-0671	Lithium base Grease ZG-5	Kg	Used for Repair of CNC M/c	69.6
267.	A-0672	Ball Bearing Grease	Kg	Used for Repair of M/c	3.46
268.	Nil	Q235- AF/Steel35/MS (Size 8x4x3mm)	Sheet	Req for mfg of VT-4 Turret Grill	2
269.	Nil	Q235- AF/Steel35/MS (Size 8x4x6mm)	Sheet		24
270.	Nil	Q235- AF/Steel35/MS (Size 8x4x10mm)	Sheet	Req for mfg of VT-4 Turret Grill	14

271.	Nil	Q235-AF/Steel35/Angle Iron (Size 32x50x4mm)	Ft		5600
272.	Nil	Q235-AF/Steel35/MS (Size 8x4x4mm)	Sheet	Req for mfg of VT-4 Turret Grill	6
273.	Nil	Q235-AF/Steel35/MS (Size 8x4x5mm)	Sheet		1
274.	Nil	Q235-AF/Steel35/Angle Iron (Size 30x00x6mm)	Ft	Req for Shop-6 mfg of Hot water tank	28
275.	Nil	Channel 50x50mm	Ft		17.5
276.	Nil	MS Rod	Ft		14
277.	Nil	Slage wool	Kg		20.88

Chemicals

278.	A-0105	Hydrogen peroxide (Max Packing 1Lit)	Lit	Used in Tin Plating Cylinder Liner, Rings (580HP/730HP)	9.8
279.	A-0129	Methylated spirit	Lit	Components	28
280.	A-0135	Natural Glycerine (Max Packing 1Lit)	Lit	Used in Zinc plating Process =144272 VT-4, T85 (Nuts, Rings, Spring etc)	25.62
281.	A-0140	Nitric Acid (Max Packing 2.5 Lit)	Lit	Components	11
282.	A-0210	Sodium Hydroxide (Pellet)(Max Packing 1Kg)	Kg	Used in Tin plating Process =7680 Cylinder Liner (580HP/730HP) Components	49
283.	A-0226	Sulphuric Acid (Max Packing 2.5 Lit)	Lit	Used in Chrome plating Process =7680 Gudgeon Pin, Link Pin+Rings VT-4 Components	13.3
284.	A-0256	Sodium Sulphide packing 1 kg	Kg	Used for Zinc plating process Gudgeon Pin, Link Pin+Rings VT-4 Components	27
285.	A-0502	Ammonium Chloride	Kg	Used in invest casting hardning process = 4821 VT-4 Components TMF & HRF-T Components Flange (S-7)	215.26
286.	A-0505	Alcohol (Mathyl)	Lit	Used in Zinc Plating 580/730HP Eng, VT-4 & T85 Components	91
287.	A-0508	Barium Chloride	Kg	Used in Copper Plating 580/730HP Eng, VT-4 & T85 Components	500.38
288.	A-0510	Chromic Acid (Ind)	Kg	Used in Chrome plating Process =7680 Gudgeon Pin, Rings of HRF-T	500
289.	A-0511	Cadmium Sulphate (IND)	Kg	Used in Cadmium plating Process =148 730HP Eng Components HRF-T	14

290.	A-0512	Copper Cyanide (IND)	Kg	Used in Copper plating Process =255 Ring, Gears, 730HP Eng & VT-4 Components	50
291.	A-0518	Chromite Sand	Kg	Used in Copper Plating 580/730HP Eng, VT-4 & T85 Components	50
292.	A-0523	Hydrochloric Acid (IND)	Lit	Used in Zinc, Tin , Cadmium, Copper plating Process 580/730HP Eng, VT-4 & T85 Components	482
293.	A-0525	Light Calcium Carbonate (Ind)	Kg	Used for buffing / polishing process = 1249 580/730HP Eng, VT-4 & T85 Components	13
294.	A-0527	Nitric Acid(IND)	Lit	Used for Al anodizing process T85 HRF-T & ARDIC Components	28
295.	A-0534	Sodium Hydroxide (Caustic Soda) (IND)	Kg	Used for Ferrous Oxidation & degreasing of all plating process = 341472 580/730HP Eng, VT-4 & T85 Components	3894
296.	A-0535	Sodium Silicate (Water Glass) (IND)	Kg	Used in invest casting slerry making = 4821 580/730HP Eng, VT-4 & T85 Components	472.27
297.	A-0536	Stearic Acid	Kg	Used in invest casting pattern making = 4822 TMF & HRF-T Components D-support, Flange	126.16
298.	A-0537	Sodium Carbonate(IND)	Kg	Used for degreasing of components.730HP Eng & VT-4 Components	99.48
299.	A-0538	Tri-Sodium Phosphate(IND)	Kg	Used for degreasing of components. 730HP Eng & VT-4 Components	299.51
300.	A-0539	Sodium Chloride (IND) Grinded	Kg	Used for neutralization of Chrome & Cyanide waste water. 730HP Eng & VT-4 Components	9000
301.	A-0540	Sulphuric Acid (IND)	Kg	Used for pickling process of Fe-Oxidation, Phosphating and Chrome plating process 730HP Eng & VT-4 Components	389
302.	A-0542	Sodium Nitrate	Kg	Used for coolant making 580/730HP Eng, VT-4 & T85 Components	100.86
303.	A-0543	Sodium Nitrite (IND)	Kg	Used for Ferrous Oxidation process = 146545 580 / 730HP Eng, DESCOM, HRF-T Components	800.67
304.	A-545	Sodium Cyanide (IND)	Kg	Used for Zinc, Cadmium, copper plating process 580 / 730HP Eng, DESCOM, HRF-T Components	775.29
305.	A-0547	Sodium Stannate (IND)	Kg	Used for Tin plating process = 7680 580 / 730HP Eng Components, Cylinder Liner+Rings	74.38
306.	A-0548	Sodium Acetate (IND)	Kg		81.59
307.	NIV	Sodium Sulphite Na2So3	kg	Repair / Maint of Boilers	100
308.	A-0552	Zinc Oxide (IND)	Kg	Used for Zinc plating process 580/730HP Eng, VT-4 & T85 Components	29.19

309.	A-0651	Paraffin Wax	Kg	Used in investment casting for Wax Pattern making = 4821 HRF-T & VT-4 (TMF) Components	97.11
310.	A-0658	Clamca Wax	Kg	Used for Cu/Chrome plating process 580/730HP Eng, VT-4 & T85 Components	15.86
311.	A-0681	Petroleum Jelly	Kg	Used for safety of workers	10
312.	A-0687	Ferro Molybdenum (Fe Mo)	Kg	Used in Material Composition (Oil control Ring Seal ring). = 2088 TMF (VT-4) HRF-T (Flange) Components	140
313.	A-0842	Samad Bond (0.75 Kg Tin)	Tin (Small)	Used for repairing of tooling / machinery	50
314.	A-0845	Epoxy majic Steel	Tube		20
315.	A-0846	Elfy Small	Tube		200
316.	A-0850	German Glue	Kg	Used for repairing work (ISR)	25
317.	A-0852	Dana lakh	Kg	Used for repairing work (ISR)	4
318.	A-0853	Sundrus	Kg	Used for repairing work (ISR)	3
319.	A-0873	Mollasses	kg	Used in Mollasses Sand for small casting Parts. HRF-T Components	386
320.	A-0888	Slag Coagulant	Kg	Used in casting for slage removal during melting from mat = 6205 HRF-T & TMF Components	161.32
321.	A-0891	Exothermic Riser Compound	Kg	Used in steel casting Shirinkage control = 6205. HRF-T & TMF Components	206.92
322.	A-2477	Zinc Ingot	Kg	Used in cast iron composition material = 2085 Used in HRF-T loading Gudgeon Pin, Link Pin Bush	400
323.	A-2478	Tin (Sn)	Kg	Used in Brass / Brones parts (Gudgoen Pin Bushing & Link Pin Bushing) = 800	100
324.	NIV	Steel Poteen	Kg	Used for Turret Grill Components	7
325.	A-2595	Ferro Phosphorus (FeP) P20~30%, Si≤3%, Mn≤2.5%	Kg	Used in Casting Composition Cast Iron Alloy improve structure.= 1793 580/730HP Eng, VT-4 & T85 Components	23.14
326.	Nil	Nickle Chloride (CP Grade)	Kgs	Nickle Plating 580/730HP Eng, VT-4 & T85 Components	13.92
327.	NIV	Resin Gel	Lit	Used in wire cut machine	14
328.	NIV	WD40	Nos		30
329.	NIV	Flux powder	Kg	Used to braze carbide tips on turning tools	4

330.	A-0541	Sulphur Powdered	Kg	Furnace Lining	4
331.	NIV	Urea (IND)	Kg	Invesment Casting	25
332.	A-0534	Sodium Hydro Oxide (Caustic Soda)	Kg		3,203
333.	A-0540	Sulphuric Acid (Industrial)	Lit		1,260
334.	CHEM-005	Glycol Etheline	Lit	Good Quality	450.00
335.	CHEM-013	Sodium Carbonate	Kg	(Na ₂ CO ₃) Pakistan	585.00
336.	CHEM-015	Sodium Hydroxide Caustic Soda	Kg	NaOH	328.00
337.	CHEM-016	Chromic Acid	Kg	CrO ₃ (Ind)	7.00
338.	CHEM-024	Sodium Silicate	Kg	(Na ₂ SiO ₃)	185.00
339.	CHEM-026	Sulphuric Acid	Lit	98% Purity	237.00
340.	CHEM-027	Methyl Orange PH- 2.9~4.6	ML	(C ₁₄ H ₁₄ N ₃ naO ₃ S) Germany/England	200.00
341.	CHEM-031	HYDRAZINE	Lit	Purity 80%, (N ₂ H ₄) Germany	30.00
342.	CHEM-032	TRI SODIUM PHOSPHATE	Kg	Na ₃ Po ₄ / Chine/Pakistan	420.00
343.	CHEM-033	Ethylene-Diamine- Tetra-Acetic acid	ML	EDTA, Molarity 0.05 (Solution) Germany / Equivalent	150.00
344.	CHEM-037	Calcium Carbide (CaC ₂)	Kg	Local / China	110.00
345.	CHEM-040	Sodium Di- Hydrogen Phosphate	Kg	Good	1,470.00
346.	CHEM-043	Thinner Plastisol Primer	Lit	Local	54.00
347.	CHEM-044	Plastisol Coating	Lit	C-7261-MIL-P-20689	84.00
348.	CHEM-045	Plastisol Primer	Lit	C-7261-MIL-P-20689	54.00
349.	A-0671	Lithium Base Grease	Kg		2,573
350.	A-0834	Haltron-1	Kg		426
351.	A-0854	Red Sealant	Tube		486
352.	NIV	Industrial Rubber Mats- Used Coveyor Belts (W: 36 Inch, Thickness 8~10mm)	Feet		600
353.	-	EMERY SHEET	NOS	NO 0	1000
354.	-	EMERY SHEET	NOS	NO 1	1000
355.	-	EMERY SHEET	NOS	NO 2	500

356.	-	EMERY SHEET	NOS	NO 3	1000
357.	-	RAG JUTE	Kgs	SIZE: $\geq$ 2x2 Feet	250
358.	-	ALUMINIUM OXIDE (60 Mesh)	KG	MESH 60	50
359.	-	ALUMINIUM OXIDE (200 Mesh)	KG	MESH 200	42
360.	-	EMERY WHEEL	NOS	DIA 50X6	205
361.	-	CONICAL GRINDING WHEEL	NOS	DIA 25X6 green colour	50
362.	-	ST GRINDING WHEEL	NOS	DIA 25X6 (green colour)	50
363.	6013	WELDING ELECTRODE Ø3.2MM	kg	as per part no 6013	10
364.	6013	WELDING ELECTRODE Ø4MM	kg	as per part no 6013	10
365.	7018	WELDING ELECTRODE Ø3MM	kg	as per part no 7018	66
366.	E5015	WELDING ELECTRODE Ø2MM	kg	as per part no E5015	10
367.	Ingco- WAH8008	WELDING HOLDER	NOS	Ingco-WAH8008	2
368.	-	GRINDING DISC 7"	NOS	7 inch (olympus wheel brand)	23
369.	-	GRINDING DISC 4"	NOS	4 inch (olympus wheel brand)	202
370.	-	GRINDING DISC 5"	NOS	5inch (olympus wheel brand)	47
371.	-	CUTTING DISC 4"	NOS	4 inch (olympus wheel brand)	12
372.	-	CUTTING DISC 5"	NOS	5 inch (olympus wheel brand)	13
373.	-	SPRAY	NOS	as per std part WD-40	40
374.	-	DEVELOPER SET	NOS	White, Red & Cleaner	25
375.	-	WELDING WIRE BRUSH	NOS	Medium Size	10
376.	-	PIN GRINDER	NOS	PIN GRINDER	1
377.	-	HAND GRINDER 4"	NOS	HAND GRINDER 4"	1
378.	-	GRINDER 7"	NOS	GRINDER 7"	1
379.	-	Rubber Sheet 5mm coverd area required 100ft x 20 ft	sq-ft	Thickness - 5mm L x W - 100ft x 20 ft	500
380.	-	Lifting Slings	Nos	to able to lift 5 ton weight,	2
381.	-	Acid proof Long Boots	Pair		24
382.	-	Acid proof Long Gloves	Pair		124

383.	Ingco - HGVK05	Cotton Gloves	Nos	Ingco - HGVK05	876
384.	KN 95	KN 95 Masks	Nos	KN 95	1400
385.	-	Acid Proof Suit	Nos		2
386.	-	Aluminum Strips LxWxH : 450mm x 150mm x 1.2mm Al 99%A1	Nos	LxWxH : 450mm x 150mm x 1.2mm Al 99%A1	250
387.	-	Water Proof emery paper No 0	Nos	No 0	60
388.	-	Copper Wire Brush	Nos		50
389.	-	Samad Bond	Nos	(40 gm)	87
390.	-	Jubilee Clamp	Nos	1/2 inch	2
391.	-	Jubilee Clamp	Nos	02 inch	2
392.	-	Jubilee Clamp	Nos	3/4 inch	2
393.	-	Jubilee Clamp	Nos	04 inch	2
394.	-	Grinding Wheel (Emery Flap disk) for Angle Grinder	Nos	(Emery Flap disk) for Angle Grinder	24
395.	-	PVC Sheet roll	Nos	(width 4 inch, length 20 meter)	4
396.	-	ELFY	Nos	50 GRAM (GSMA)	127
397.	-	Impact resistant Safety Goggles	Nos		8
398.	P-80	Plasma cutting Torch P-80	<u>Nos</u>	As per P80 standard of plasma cutter	<u>1</u>
399.	-	Black Leather Zip Folder (good quality) for Office use , A4 size with accessories (calculator, pen drafting pad etc)	Nos	A4 size with accessories (calculator, pen drafting pad etc)	3
400.	-	3M Acid Proof protective complete nose mouth and head protective one unit set	Nos		10
401.	-	ZMSY10-25JF stainless steel flanged solenoid valve	Nos	Manufacturer: Shanghai Zhumao Valve Co., Ltd Connection size: DN 25 (1inch / 25mm) Connection type: Flanged four hole bolt pattern Nominal Pressure: 1.0 Mpa (10 bar / 145 Psi) Power Supply: AC 220V Control Mode: Normally closed NC Operating Temp: 0-80oC Length:120mm ZMSY10-25JF Shanghai Zhumao Valve Co., Ltd or Equivalent	2

402.	-	MIT UNI-D CMS Threaded Solenoid Valve SU-25 Assembly	Nos	Orifice: 25 Pipe Size: DN 25 / 16 (25mm), 1" Body Material: 304 Stainless steel (highly resistant to heat and corrosion) Operating Voltage: 220V (50/60Hz) Pressure Range (PN): 0 to 5 kg/cm ² Function: Normally Closed (NC)	1
403.	-	UNID-cns UM-1 Electric Actuator mounted on 316L Stainless Steel 3-Piece Ball valve Assembly	Nos	Actuator Specs:- Voltage: AC 220V (50/60 Hz) Power Consumption: 10 Watts Current: 0.3 Amps Operating Speed: 10 seconds (for 90° rotation) Duty Cycle: 30% (Standard On-Off) Enclosure Material: High-grade Nylon (Red) Waterproof Rating: IP67 (Dust tight and protected against immersion) Position Indicator : Top-mounted visual window showing "Open/Close" status Ball Valve Specs:- Material: 316L Stainless Steel (Highly corrosion resistant) Size: 1½" (DN40) Pressure Rating: 1000 WOG (Water, Oil, Gas; rated for up to 1000 PSI at room temperature) Port Type: Full Port (The internal ball opening matches the pipe diameter for maximum flow) Seals: Typically PTFE (Teflon) for high chemical compatibility End Connection: Female NPT (Threaded) Wiring:- Terminal (1): Common/Neutral Power Supply line. Terminal (3): Connect with Power-R (Live) to OPEN the valve. Terminal (4): Connect with Power-R (Live) to CLOSE the valve. Terminals (5) & (6): These are usually for Pilot Lamp/Signal Feedback (5 for "Open" light, 6 for "Closed" light).	1
404.	-	220V loud Buzzer	Nos	220V loud Buzzer	1
405.	-	Heavy duty extension board for PC with more than 6 sockets	Nos	6 sockets	1
406.	-	Heavy duty extension board for heavy loads upto 6kW, wire upto 10 meter	Nos	for heavy loads upto 6kW, wire upto 10 meter	2
407.	-	Dater Stamp (5mm Size)	Nos	(5mm Size)	2
408.	-	M20 Nut	Nos	M20	12
409.	-	M20 Bolt	Nos	M20	12
410.	-	M24 Nut	Nos	M24	12
411.	-	M24 Bolt	Nos	M24	12
412.		SMALL BATTERY CELL	NOS	AA 1.5V	260
413.	-	NOSE MASK	NOS	Surgical Cotton Nose Mask	200

414.		White Cotton Cloth	MTR	-	200
415.		MANILA ROPE	MTR	DIA 1 1/4" (1.25")	153
416.	-	CELL LR-44	Nos	LR-44	115
417.		Emery Wheel	Nos	DIA 25X6 fine grade	38
418.		Copper Wire Brush (Power Brush)	Nos	Dia 25mm	28
419.		Emery Wheel Disc For Grinder	Nos	Dia 3"	55
420.		Silicon Carbide paper water proof	Nos	P600C	110
421.		Soldering wire	Mtr	(S-Sn90PbA) 2mm	110
422.		Leather gloves	pair	Std size	22
423.		Graphite Powder	Kg	Std	13
424.	E7018 Dia 2.5 mm x 300mm	Electrode	Kgs	as per part number	180
425.	ELC318 Dia 3.2 mm x 350mm	Electrode	Kgs	as per part number	330
426.	E7017 Dia 4 mm x 400mm	Electrode	Kgs	as per part number	160
427.	C1-55 Luna Dia 3.2mm x 350mm (Thailand)	Electrode	Kgs	as per part number	31
428.	E6013 THJ 507 3.2 x 350mm	Electrode THJ 507 3.2 x 350mm E6013	Kgs	as per part number	31
429.	-	Super Flux Diamond Bronze Powder	Kg	std	5
430.	-	Brozen wire for Acetylene welding	Kg	std	5
431.	-	Teflon Tape White	No.	std	330
432.	-	Locking Wire	Kg	Dia 1 mm (Low Carbon Steel)	55
433.	-	Locking Wire	Kg	Dia 1.5 mm (Low Carbon Steel)	55
434.	-	Light Yellow Soft	Mtr	PVC Tube 1.5 mm	50
435.	-	Light Yellow Soft	Mtr	PVC Tube 2 mm	50
436.	-	Light Yellow Soft	Mtr	PVC Tube 3 mm	110
437.	-	Light Yellow Soft	Mtr	PVC Tube 6 mm	75
438.	-	Nylon Thread 1mm	Mtr	Dia 1 MM	170
439.	-	Paper Tape 2"	Nos	Masking Tape 2" x 15 Mtr	55

440.	-	Cutting Disc	Nos	5 Inch	80
441.	-	Cutting Disc	Nos	7 Inch	25
442.	P-80	Nozzle	Nos	P-80 for Plasma Cutter Size 1.5 MM	31
443.	P-80	Electrode	Nos	P-80 for Plasma Cutter	31
444.	Ressichem 350	Insulation Vanrish	Lit	Ressichem 350 Z Epoxy 500 MI	8
445.	4228-Liquid	Varnish Alkyd	Lit	Class H (Polyethylene)	11
446.	N/A	Soldering Iron Tip	Nos	Tip 100 Watt	17
447.	-	Silicon Stick	Nos	10 MM	11
448.	-	Copper Rode	mm	Dia ~ 30 MM and Length 900 MM	200
449.	-	Coin Cell CR2032	nos	3 Volt	17
450.	-	Cotton	kg		1
451.	-	Filter Paper NO 1	Box (100)	NO 1	3
452.	-	Filter paper no 4	Box (100)	no 4	3
453.	-	Filter paper No 41	Box (100)	No 41	7
454.	-	pH strips	Box (100)		20
455.	-	Safety goggles	Nos		4
456.	-	PPE KIT for Lab (Lab coat, Goggles, M3 nose mask, ear muff and helmet)	set	(Lab coat, Goggles, M3 nose mask, ear muff and helmet)	3
457.	-	Latex Disposable gloves	Box (100)		6
458.	-	Graduated Cylinder 50 ml	Nos	50 ml	6
459.	-	Graduated Cylinder 100 ml	Nos	100 ml	6
460.	-	Graduated Cylinder 1000 ml	Nos	1000 ml	2
461.	-	Beaker 2000 ml	Nos	2000 ml	2
462.	-	Beaker 250 ml	Nos	250 ml	2
463.	-	Beaker 100 ml	Nos	100 ml	4
464.	-	Beaker 50 ml	Nos	50 ml	4
465.	-	Pipelte 1 ml	Nos	1 ml	2
466.	-	Pipelte 2 ml	Nos	2 ml	2

467.	-	Pipette 25 ml	Nos	25 ml	2
468.	-	Wash Glass Bush Small	Nos		2
469.	-	Wash Glass Bush Medium	Nos		2
470.	-	Wash Glass Bush Large	Nos		2
471.	-	Burette Brush	Nos		2
472.	-	Test Tube Brush	Nos		2
473.	-	Tongue for conical Flask	Nos		2
474.	-	Tongue for circular Flask	Nos		2
475.	-	Reagent Bottle T Type 250 ml	Nos	Type 250 ml	2
476.	-	Dropping Bottle 100 ml	Nos	100 ml	1
477.	-	Dropping Bottle Amber Color 100 ml	Nos	100 ml	1
478.	-	Horn Spoon 50 ml	Nos	50 ml	4
479.	-	Horn Spoon 25 ml	Nos	25 ml	4
480.	-	Horn Spoon 10 ml	Nos	10 ml	4
481.	-	Tubing clip Ø 1 inch	Nos	Ø 1 inch	6
482.	-	Aspirator Clip (Jublic)	Nos	(Jublic)	6
483.	-	Silicon Pipe	Nos		2
484.	-	Stainless Bucket Steel	Nos	Stainless Bucket Steel	1
485.	-	Jar Large Plastic	Nos		1
486.	-	Watch Glass Ø 75	Nos	Ø 75	2
487.	-	Watch Glass Ø 50	Nos	Ø 50	2
488.	-	Watch Glass Ø 100	Nos	Ø 100	6
489.	-	Spatula Steel	Nos		4
490.	-	Plastic Cylinder Ø 100	Nos	Ø 100	2
491.	-	Plastic Cylinder 50 ml	Nos	50 ml	2
492.	-	Plastic Cylinder 250 ml	Nos	250 ml	2
493.	-	Plastic Cylinder 500 ml	Nos	500 ml	2
494.	-	Plastic Cylinder 1000 ml	Nos	1000 ml	2

495.	-	Plastic Cylinder 2000 ml	Nos	2000 ml	2
496.	-	Drop Nipple Rubber	Dozen		3
497.		Oil Filter Part No. 1622 0871 00 20Bar, Temp 120 °C	Nos	Part No. 1622 0871 00 20Bar, Temp 120 °C	2
498.		Air Filter Part No. 1513 0337 01 Max Pressure 15 Bar	Nos	Part No. 1513 0337 01 Max Pressure 15 Bar	2
499.	909507	Air Filter	Nos	909507	2
500.	-	Motor Air Breaker CWI- 2000 1000Volt, 630Amp, 50Hz, IEC 60947-2GB14048.2	Nos	CWI-2000 1000Volt, 630Amp, 50Hz, IEC 60947- 2GB14048.2	2
501.	-	Solenoid Operated Valve ZBSF- 25mm 0- 1-6 Mpa 220V, 50Hz, 20~200 C Size -D 25/16 Normally Closed	Nos	ZBSF- 25mm 0-1-6 Mpa 220V, 50Hz, 20~200 C Size -D 25/16 Normally Closed	6
502.	MW	Dry Battery Cell 2 Volt 500AH	Nos	2 Volt 500AH	48
503.	-	Ball Bearing No. 6309Z	Nos	6309Z	2
504.	-	Solenoid Operated Valve ZBSF- 25mm 0- 1-6 Mpa 220V, 50Hz, 20~200 C Size -D 25/16 Normally Closed	Nos	ZBSF- 25mm 0-1-6 Mpa 220V, 50Hz, 20~200 C Size -D 25/16 Normally Closed	3
505.	-	Solenoid Operated Valve Model SUW-25 220V, 50/60Hz, Pipe Size 1"	Nos	SUW-25 220V, 50/60Hz, Pipe Size 1"	3
506.	-	Electrical Actuated Valve MIT-UNID- CNSModel UM 1 Power Low Voltage 220V, 50/60Hz, Current 0.25A O/Ctime 12/10Sec Contact 3 with Power R Open Contact with 4 Power R Close	Nos	MIT-UNID-CNSModel UM 1 Power Low Voltage 220V, 50/60Hz, Current 0.25A O/Ctime 12/10Sec Contact 3 with Power R Open Contact with 4 Power R Close	2
507.	-	Thrust Ball Bearing No.51112	Nos	Thrust Ball Bearing No.51112	2
508.	-	Union Size 2"	Nos	DN-50 (2 Inch) PVC Chemical Proof	6
509.	-	Socket Size 2"	Nos	DN-50 (2 Inch) PVC Chemical Proof	12
510.	-	Elbow Size 2"	Nos	DN-50 (2 Inch) PVC Chemical Proof	12
511.	-	Ball Valve Size 2"	Nos	DN-50 (2 Inch) PVC Chemical Proof	12
512.	-	Temperature Sensor	Nos	Electrical Sensor for temperature	2
513.	-	Enamled Wire SWG 23 1KG	kg	Wire No - SWG 23	2

514.	-	Ball Bearing 6204	Nos	Ball Bearing No - 6204	2
515.	-	Ball Bearing 6203	Nos	Ball Bearing No - 6203	2
516.	-	Chemical Submersible Pump 2KW 380 Volt	Nos	Chemical proof - 2KW 380 Volt	1
517.	-	Reagent bottles (Glass)	Nos		12
518.	-	Glass Dropper for aspirator bottle	Ltr		5
519.	-	Wide Mouth Bottle 100 ml	Nos	100 ml	2
520.	-	Wide Mouth Bottle 250 ml	Nos	250 ml	6
521.	-	Wide Mouth Bottle 500 ml	Nos	500 ml	6
522.	-	Wide Mouth Bottle 1000 ml	Nos	1000 ml	3
523.	-	Graduated Cylinder 5 ml	Nos	5 ml	6
524.	-	Graduated Cylinder 10 ml	Nos	10 ml	6
525.	-	Surgical Cap (reusable)	Dozen		3
526.	-	Qualitative Filter Paper No.1	Box (100)	No.1	6
527.	-	Qualitative Filter Paper No.2	Box (100)	No.2	6
528.	-	Qualitative Filter Paper No.4	Box (100)	No.4	6
529.	-	Qualitative Filter Paper No.6	Box (100)	No.6	6
530.	-	Qualitative Filter Paper No.41	Box (100)	No.41	6
531.	-	Qualitative Filter Paper No.43	Box (100)	No.43	6
532.		Mechanical Seal (As Per Sample)	Nos	Inner Dia - 35 mm Outer Dia - 49.6 mm	2
533.		Flat Fiber Sling	Nos	5Mtr + EB-75- 3 Ton	10
534.		Round Fiber Sling	Nos	6mtr EB-125 (5 Ton)	10
535.		Cotton Rag	Kgs	Piece size not less than 2x1 ft	4500
536.		5"Paint Brush	Nos	5"Paint Brush (Master / Captin or equalient	45
537.		Cr-2025 (Large Cell)	Nos	Cr-2025 (Large Cell)	6
538.	-	R-22 (USA) Chiller Rafrigerant	Nos	as per std	1
539.	-	WASHING SOAP	Nos	Sufi Soap or equalient	1524
540.	-	PETROLIUM JELLY (100 gm)	Nos	Original Vesline	111
541.		R-134A (USA) Rafrigerant	Nos	R-134A (USA) Rafrigerant	1

Lubricants

542.	NIV	AZMOL OIL M4042VT	Lit		1,130
543.	A-0616	Hyd Oil OM-13	Lit		3,150
544.		BARREL CLEANING OIL Parker Hale Young's 303 or equivalent	ltr	a. Product Name: Parker Hale Young's 303 Combined Cleaner and Rust Preventer Gun b. Type / Form: Emulsifying cleaner — available as liquid drop tin or aerosol spray c. Available Sizes: 150 ml aerosol or 125 ml drop tin	5
545.		BARREL LUBRICATION OIL Parker Hale Express Gun Oil or equivalent	ltr	a. Product Name: Parker Hale Express Gun Oil b. Type / Form: Light mineral oil — available as 125 ml spout tin or aerosol c. Base Oil: Light mineral oil — high-grade formulation suitable for firearms and other precision lubrication applications	4
546.	A-0611	Refrigrent Oil	Lit	Used for Air compressor	40
547.	HV-68	Hydraulic Oil	Lit		208
548.	Vactra-2	Hydraulic Oil	Lit		1456
549.	Velocite-6	Spindle Oil	Lit		208
550.	-	Rust oil WD-40 (400 ml)	Btl		176
551.	86K020	Omala S2 G 150	Ltr		3
552.	-	Lubricant Coolant	Ltr		88
553.	-	Mobil Coolant	Ltr		190
554.	86P004	Fronius Welding Torch Coolant ,5 Liters (86P004)	Ltr		132
555.	45A046	Simalube SL01, Grease	Nos		14
556.	45A034	Simalube SL06 Grease	Nos		28
557.	9E+16	Castrol Grease	Kg		5
558.	86K019	Shell Tonna S2 M220 Oil	Lits		1
559.	BEM 34-132	Kluberplex Grease	Kgs		2
560.	86K004	Special Grease P34	Nos		2
561.	KLUBER SPEED 72- 22	Grease for milling head	Kg		2

562.	KLUBER ISO-FLEX NBU-15	Special Greese	Kg		3
563.	L-HM46	Hydraulic Oil L-HM46	Ltrs		40
564.	-	Deionized Water	Ltrs		20
565.	86K001	Anti Spatter Spray	Ltrs		5
566.	-	Contact cleaner spray	Btl		10
567.	GB/T394.1- 2008)	Industrial alcohol	Kg		66
568.	-	Industrial Cleaning Agent	Kg		66
569.	SCWO-4000	Screw Compressor Oil	Ltr		205
570.	HJ-45	Machine Oil (HJ45)	Ltr		1470
571.	W20-50	Generator Oil W-20- 50	Ltr		50
572.	DIN-51502	Greese	Kg		100
573.	-	Recoil Oil (RL 04)	Ltr	a. Liquid shall be free from unusual odour and corrosive effect to human body. B. Corrosion test at constant temp 55°C for 5 days. C. Stability at -55°C for 72 hrs: no lamination, crystallizing, precipitate and turbidity. b. a. Appearance: Even and transparent liquid. B. Density(20°C): 1.0 to 1.108, c. kinematic viscosity: 40°C is >3.0 and at -40°C is <800.0 d. Freezing point: -50 °C, e. Boiling point: >80°C. F. flash point: >40°C, g. pH value: 8.0 to 11.0	200
574.	TBB-120-2012	Gun grease Gansu	kg	Composition of following:- a. Oil L-AN100 : ~20%, b. Petrolatum: ~65%, c. Cerasin wax purified: ~5%, d. Industrial NaOH: 0.02% a. Drop point (°C): 50 index, b. Protection property 50 °C 48 hr. c. Corrosion 100°C 3 hr, d. Retentivityat 0°C 24hr mg/cm2 min: >0.6, e. KOH: <0.30, f. Mechanical impurities: <0.07%, g. Viscosity in motion(100°C): 12 to 15 mm2 b. . -20 to 120 °C.	120
575.		Tapping Oil (Soluble)	Btl	a. active sulphur chlorine aditiives, b. a. Extreame temp property, b. Superior wet ability, c. Drilling and tapping of ferrous metals. c. a. Appearance: Dark liquid, b. Viscosity at 40°C: 315 to 385cST, c. Flash point: 240°C.	30
576.		Brake Oil	Lits	a. fluid type (dot 4) b. colour (clear to amber) c. density (1.03 ~ 1.10 g/cm) d. Viscosity @-40°C (dot 4 typically ≤1800 mm2/s b. 2~3 yr life	6

577.		Spindle Lubricant Oil Sinopec L-FD5	Lits	a. ISO Viscosity Grade 5 b. Kinenamatic Viscosity @40°C (4.7~5.1cSt (mm2/s)) c. Flash point (~90°C (closed cup) d. density @15°C (approx 0.1~0.85g/cm3) b. a. Excellent oxidation stability for long life b. Good antiwear properties to reduce bearing wear c. a. Kinenamatic Viscosity @40°C (4.7~5.1cSt (mm2/s)) b. Flash point (~90°C (closed cup) c. density @15°C (approx 0.1~0.85g/cm3)	40
578.		Gear Oil No.90	Lits	a. Viscosity grade (SAE90) b. Density @15°C (0.86~0.89g/cm3) c. Kinenamatic Viscosity @40°C (15~17cSt (mm2/s))	225
579.		Sabesto HHS Lube	Lits	a. Product type higher pressure adhesive lubricant b. Viscosity approx 1500cSt c. Density @20°C (0.74~0.83g/cm3) d. Operating temperature (-25°C~180°C)	1
580.		Alvania RL2 Shell OR Shell Gaddus S-2 V100 2 (Grease)	kg	a. NLGI grade (2) b. Soap type lithium hydroxystearate c. Based Oil Viscosity @40°C (100cSt) d. Worked penetration(265~295)	0.5
581.		SHC 634 Mobil Oil	Ltrs	a. Synthetic PAO Gear & Bearing Oil b. ISO Viscosity Grade (ISO VG 460) c. Viscosity @40°C ~ 100°C (460cSt~50.7cSt) d. Base Oil polyalphaolefin (PAO) synthetic b. a. Excellent rust protection, foam control, air release characteristics, thermal stability & shear stability. b. High load carrying capability c. Energy efficiency improvement up to 3.6% vs miner gear oils.	0.75
582.		Lubrication CPI-320 Oil	Ltrs	a. ISO Viscosity Grade (ISO VG320) b. Base Oil (Polyol Ester (POE) synthetic - c.Refrigerant Compatibility (HCFC Refrigerants (R-22) a. Excellent Thermal Stability b. Excellent Oxidation Stability c. High Compressor Sealing Capability	15
583.		Rectifier Oil (10000Amp)	Ltrs	a. Oil Type (Transformer / Insulating Oil)b. Base Oil (Highly Refined MineralOil)c. Standard (IEC60296/ASTD3487)d.density @20°C (0.86~0.89Kg/L)e. Viscosity @40°C (8-12cSt) b. a. Breakdown Voltage > 60 KV b. Water Content < 20 ppmc. Flash Point > 140°C c. a. High Dielectric Strengthb. Excellent Heat Dissipationc Good Moisture Resistance	40
584.		Rectifier Oil	Ltrs	a. Oil Type (Transformer / Insulating Oil) b. Base Oil (Highly Refined MineralOil) c. Standard (IEC 60296/ASTD3487) - d.density @20°C (0.86~0.89Kg/L) e. Viscosity @40°C (8-12cSt) b. a. Breakdown Voltage > 30 KV (New Oil) b. Water Content < 30 ppm c. Flash Point > 140°C c. a. High Dielectric Strength b. Excellent Heat Dissipation - c Good Moisture Resistance	40

585.		Roto Inject Oil	Ltrs	a. Product Type (Rotary Screw Air Compressor Oil) b. Base Oil (Mineral Oil (Premium Grade)) c. Density @15°C (0.87~0.89Kg/L) d. Viscosity Grade (ISO VG 46) e. Kinematic Viscosity @100°C (6.8 ~ 7.5 cSt) f. Flash point ≥220°C b. a. Excelent oxidation stability, thermal stability, corrosion protection, foam resistance, eater separation, deposit control & air release characteristics. b. High wear protection, bearing protection & compressor cleanliness c. a. Base Oil (Mineral Oil (Premium Grade)) b. Density @15°C (0.87~0.89Kg/L) c. Viscosity @40°C (46 cSt) d. Water content as low as possible e. Operating Temperature (typically below 100°C)	10
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Delivery Schedule: As and when required by HIT for a period of 3 x Years. Supplier must supply within time dictated by HIT.

Advance Sample: Firms are required to deposit the 3 x samples (free of cost) for inspection / testing at pre-qualification stage and only qualified firms will be asked to provide Commercial quotation.

Testing Standards: Proper technical specification may be mentioned and all items must strictly comply with Defense and ASTM standards.

Quantity: Above mentioned quantities are estimated quantity per year and may vary as per requirement.

***Note:** Rate of other commonly used items which are not included in the list above, may also be provided.