

HARYANA STATE FEDERATION OF COOPERATIVE SUGAR MILLS LTD.,
Bay No. 49-52, Sector-2, Panchkula-134109 (Haryana)
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Detailed Notice Inviting Tender (Short term E-Tender)

(Ref.No.Tender(O and M)/2026/2)

E-Tender is invited for below mentioned items in single stage two parts system available online at <https://etenders.hry.nic.in> i.e. Request for Pre-Qualification/Technical Bid (online Bid under PQQ/ Technical Envelope) and Request for Financial Bid (comprising of price bid Proposal under online available BOQ Commercial Envelope):-

Sr. No.	Name of Item	EMD to be Deposited	Tender Document Fee & e-Service Fee	Start Date & Time of Bid Preparation & Submission	Expiry Date & Time of Bid Preparation & Submission
1	Tender regarding contract of Operation and Maintenance of 06 nos. of plants as per detail attached in DNIT for Cluster 1 & 2 of Haryana Coop. Sugar Mills during Off-season 2026 & Crushing Season 2026-27 as well as for Off-Season 2027 & Crushing Season 2027-28. Jobs, scope of work, terms and conditions are covered in DNIT. <u>Cluster -1</u> i) Panipat Coop. Sugar Mills ii) Rohtak Coop. Sugar Mills iii) Jind Coop. Sugar Mills <u>Cluster -2</u> i) Shahabad Coop. Sugar Mills ii) Sonipat Coop. Sugar Mills iii) Meham Coop. Sugar Mills	30.00 Lakhs	Tender Document Fee – Rs.5,000/- e-Service Fee Rs.1,180/-	24.09.2026 at 10:00 AM	30.09.2026 at 03:00 PM

Under this process, the Pre-qualification/Technical online bid Application as well as online Price Bid shall be invited at single stage under two parts i.e. PQQ/Technical & Commercial Envelope. Eligibility and qualification of the Applicant will be first examined based on the details submitted online under first cover (PQQ or Technical) with respect to eligibility and qualification criteria prescribed in this Tender document. The Price Bid under the second cover shall be opened for only those Applicants whose PQQ/ Technical Applications are responsive to eligibility and qualifications requirements as per Tender document.

1. The payment for Tender Document Fee and e-Service Fee shall be made by bidders/contractors online directly through Debit Cards & Internet Banking Accounts and the payment for EMD can be made online directly

through RTGS/NEFT or OTC Please refer to 'Online Payment Guideline' available at the Single e-Procurement portal of Goh (Govt. of Haryana) and also mentioned under the Tender Document.

2. Intending bidders will be mandatorily required to online sign-up (create user account) on the website <https://etenders.hry.nic.in> to be eligible to participate in the e-Tender. She/He will be required to make online payment of (EMD amount of **Rs 30.00** lacs towards EMD fee in due course of time. The intended bidder, who fails to pay EMD fee under the stipulated time frame shall not be allowed to submit his/her bids for the respective event/Tenders. The interested bidders must remit the funds at least 1 working day (One working Day) in advance i.e. on or before date 28.09.2026 upto 05:00 P.M. and make payment via RTGS / NEFT or OTC to the beneficiary account number specified under the online generated challan. The intended bidder/ Agency thereafter will be able to successfully verify their payment online and submit their bids on or before the expiry date & time of the respective events/Tenders at <https://etenders.hry.nic.in>.
3. The interested bidders shall have to pay mandatorily e-Service fee (under document fee – Nonrefundable) of Rs.1000/- (Rupees One Thousand Only) online by using the service of secure electronic gateway. The secure electronic payments gateway is an online interface between bidders & online payment authorization networks. The Payment for document fee/e-Service fee can be made by interested bidders online directly through Debit Cards & Internet Banking.

The Bidders can submit their tender documents (Online) as per the dates mentioned in the key dates:-

Key Dates

Sr. No.	Department Stage	Bidder's Stage	Start date and time	Expiry date and time
1	Tender Document Download and Bid Preparation/Submission on		24.09.2026 at 10:00 AM	30.09.2026 at 03:00 PM
2	Technical Bid Opening			30.09.2026 04:00 PM
3	Technical Shortlisting & Evaluation alongwith Financial Bid Opening			01.10.2026 10:00 AM

Note: Negotiation will be held as per policy dated 21.05.2023

The bids shall be submitted online in two separate parts:

- **Part 1: Technical Bid** - The bidders shall upload the required eligibility and technical documents online in the technical bid in PDF format.
- **Part 2: Commercial Bid** - The bidders shall quote the prices in price bid format under Commercial Bid.

1. Information/documents to be uploaded by the Tenderers in the Technical Bid:-

- 1.1 Certificate from the proprietorship/partnership firm/Company etc. authorising firm's/Company's Representative to sign/participate in opening and negotiation of the tender (Signature duly attested).
- 1.2 Copy of GSTIN certificate.
- 1.3 Copy of PAN card.
- 1.4 Certificate regarding acceptance of all the Terms & Conditions as mentioned in the DNIT/Tender document
- 1.5 Upload the information i.e., Firm/Company Name, Complete Address, Contact person, Mobile No & Email id.
- 1.6 Copy of Work orders required as per Technical Bid criteria specified separately in the Tender form for the same work.
- 1.7 Balance Sheet of last three Financial Years unaudited/ duly certified by CA Firm i.e. (2023-24, 2024-25 & 2025-26)

- 1.8 Certificate of Average Annual Turnover of Firm/Company for the same kind of Job/work for a sum of as per enclosed technical bid eligibility criteria during the last three Financial Year duly certified by Chartered Accountant firm i.e 2023-24, 2024-25 & 2025-26).
- 1.9 Undertaking by the bidder that the bidder is not black listed from any Cooperative Sugar Mills of the Haryana.
- 1.10 Prospective Bidder Firm/Contractor/Company must be registered under all the Applicable labour laws undertaking to that effect.

In case of non-submission of the above (where is applicable) the technical bid shall be rejected.

Other terms & conditions: -

- 1.11 The bidder will submit the solvency certificate not older than three months from the date of tender from the operating/dealing banks.
- 1.12 Satisfactory Repair & maintenance Certificate to be submitted by the bidder. The bidder shall upload a No Dues Certificate from the concerned Cooperative Sugar Mills of Haryana State **or** submit an undertaking to the effect that no amount is payable by the bidder firm to concern Coop. Sugar Mills of Haryana, where the firm is bidding.

1. Invitation of Bids:

- 1.1 The Haryana State Federation of Coop. Sugar Mills Ltd. is looking for reputed parties/bidders for Operation & Maintenance of 06 nos. of plants as per detail attached in DNIT for Cluster 1 & 2 of Haryana Coop. Sugar Mills during Off-season 2026 & Crushing Season 2026-27 as well as for Off-Season 2027 & Crushing Season 2027-28. Jobs, scope of work, terms and conditions are covered in DNIT.
- 1.2 Tenderers are also advised to study all technical and commercial aspects, instructions, forms, terms and specifications carefully in the tender document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect will be at the tenderer's risk and may result in rejection of the bid.
- 1.3 The payment for Tender Document Fee INR 1180/- (Rupees One Thousand One Hundred Eighty Only) (Non-refundable) can be made by eligible bidders/contractors online directly through Debit Cards & Internet Banking Accounts. The payment for EMD can be made online directly through RTGS/NEFT, and the bidder would remit the funds at least one transaction day in advance to the last day and make the payment via RTGS/NEFT to the beneficiary account number as mentioned in the challan.

2. Procedure for Submission of Bids

- 2.1 The bids shall be submitted online in two separate envelopes:
 - Envelope 1: Technical Bid – The bidders shall upload the required details online in the Technical Bid.
 - Envelope 2: Commercial Bid – The bidders shall quote the prices in price bid format under Commercial Bid.
- 2.2 Bidders are mandatorily required to submit the commercial bid in the prescribed online format only. No manual financial bid shall be entertained.

Note Please:

1. Managing Director, Haryana Sugarfed, Panchkula reserves the right to reject any/all tenders without assigning any reason whatsoever.

2. Any condition of the firm/company other than that mentioned in the tender form uploaded along with the quotation/tender, if any, shall not be binding on the sugar mills.
3. On acceptance of tender, the date of start of contract should be strictly adhered to; otherwise, Mills reserves the right to cancel the contract and forfeit the earnest money of the tenderers.
4. As per instructions, single bid is not liable to be accepted as a matter of right, whereas the final decision in this regard shall be taken by the competent authority while considering circumstances at relevant point of time.

Tenderers are advised to remain present at the time of opening of technical & financial bids.

Instructions to bidder on Electronic Tendering System

These conditions will overrule the conditions stated in the tender documents, wherever relevant and applicable.

1. Registration of bidders on e-Procurement Portal:

All the bidders intending to participate in the tender process online are required to get registered on the centralized e-Procurement Portal i.e. <https://etenders.hry.nic.in>. Please visit the website for more details.

2. Obtaining a Digital Certificate:

- 2.1 The bids submitted online should be encrypted and signed electronically with a Digital Certificate to establish the identity of the bidder bidding online. These Digital Certificates are issued by an Approved Certifying Authority, by the Controller of Certifying Authorities, Government of India.
- 2.2 A Digital Certificate is issued upon receipt of mandatory identity (i.e. Applicant's PAN Card) and Address proofs and verification form duly attested by the Bank Manager / Post Master / Gazette Officer. Only upon the receipt of the required documents, a digital certificate can be issued. For more details please visit the website – <https://etenders.hry.nic.in>
- 2.3 The bidders may obtain Class-II or III digital signature certificate from any Certifying Authority or Sub certifying Authority authorized by the Controller of Certifying Authorities or may obtain information and application format and documents required for the issue of digital certificate form.
- 24 The bidder must ensure that he/she complies with the online available important guidelines at the portal <https://etenders.hry.nic.in> for Digital Signature Certificate (DSC) including the e-Token carrying DSCs.
- 2.5 Bid for a particular tender must be submitted online using the digital certificate (Encryption & Signing), which is used to encrypt and sign the data during the stage of bid preparation. In case, during the process of a particular tender, the user loses his digital certificate (due to virus attack, hardware problem, operating system or any other problem) he will not be able to submit the bid online. Hence, the users are advised to keep a backup of the certificate and also keep the copies at a safe place under proper security (for its use in case of emergencies).
- 2.6 In case of online tendering, if the digital certificate issued to the authorized user of a firm is used for signing and submitting a bid, it will be considered equivalent to a no objection certificate/power of attorney/lawful authorization to that user. The firm has to authorize a specific individual through an authorization certificate signed by all partners to use the digital certificate as per Indian Information Technology Act 2000. Unless the certificates are revoked, it will be assumed to represent adequate authority of the user to bid on behalf of the firm in the department tenders as per Information Technology Act 2000. The digital signature of this authorized user will be binding on the firm.
- 2.7 In case of any change in the authorization, it shall be the responsibility of management/partners of the firm to inform the certifying authority about the change and to obtain the digital signatures of the new person/user on behalf of the firm/company. The procedure for application of a digital certificate however will remain the same for the new user.
- 2.8 The same procedure holds true for the authorized users in a private/public limited company. In this case, the authorization certificate will have to be signed by the directors of the company.

3. Opening of an Electronic Payment Account

For purchasing the tender documents online, bidders are required to pay the tender document fee online using the electronic payment gateway service. For online payment guidelines, please refer to the home page of the Portal <https://etenders.hry.nic.in>.

4. Pre-requisites for online bidding:

In order to operate on the electronic tender management system, a user's machine is required to be set up. A help file on system setup/pre-requisite can be obtained from Tenders Haryana or downloaded from the home page of the website – <https://etenders.hry.nic.in>. The link for downloading required java applet & DC setup are also available on the homepage of the e-tendering portal.

5. Online Viewing of Detailed Notice Inviting Tenders:

The bidders can view the detailed N.I.T and the time schedule (Key Dates) for all the tenders floated through the single portal e-Procurement system on the Home Page at <https://etenders.hry.nic.in>.

6. Download of Tender Documents:

The tender documents can be downloaded free of cost from the e-Procurement portal <https://etenders.hry.nic.in>.

7. Key Dates:

The bidders are strictly advised to follow dates and times as indicated in the online Notice Inviting Tenders. The date and time shall be binding on all bidders. All online activities are time-tracked and the system enforces time locks that ensure that no activity or transaction can take place outside the start and end dates and the time of the stage as defined in the online Notice Inviting Tenders.

8. Online Payment of Tender Document Fee, e-Service Fee & Bid Preparation & Submission (PQQ/Technical & Commercial/Price Bid):

8.1 Online Payment of Tender Document Fee + e-Service Fee: The online payment for Tender Document Fee, e-Service Fee & EMD can be done using the secure electronic payment gateway. The payment for Tender Document Fee and e-Service Fee shall be made by bidders/vendors online directly through Debit Cards & Internet Banking Accounts and the payment for EMD shall be made online directly through RTGS/NEFT & OTC. The secure electronic payments gateway is an online interface between contractors and Debit Card/online payment authorization networks.

8.2 Preparation & Submission of Online Applications/Bids: .

- (i) Detailed tender documents may be downloaded from e-procurement website (<https://etenders.hry.nic.in>) and tender (bid) mandatorily be submitted online following the instructions appearing on the screen.
- (ii) Scanned copy of documents to be submitted/uploaded for Prequalification or Technical bid under online PQQ/Technical Envelope: The required documents (refer to DNIT) shall be prepared and scanned in different file formats (PDF/JPEG/MS Word format such that file size does not exceed more than 10 MB) and uploaded during the online submission of PQQ or Technical Envelope.
- (iii) Financial or Price Bid Proposal shall be submitted mandatorily online under Commercial Envelope and original not to be submitted manually.

9. **ASSISTANCE TO THE BIDDERS:**

For queries on Tenders Haryana Portal, Kindly Contact

Note:- Bidders are requested to kindly mention the URL of the Portal and Tender ID in the subject while emailing any issue along with the contact details. For any issues/ clarifications relating to the tender (s) published kindly contact the respective Tender Inviting Authority.

Tel:-0120-4200462, 0120-4001002

Mobile:-8826246593

E-mail:-support.etender@nic.in

For any technical related queries please call at 24 x 7 Help Desk Number

0120-4001002, 0120-4200462, 0120-4001005, 0120-6277787

For Support related to Haryana Tenders in addition to helpdesk you may also contact on e-mail ID eproc.nichry@yahoo.com Tel:-01722700275

Timing:-

Technical Support Assistance will be available over telephone Monday to Friday (09:00am.to 5:00 pm)
(Helpdesk support team shall not be contacted for online bidding on behalf of the Contractors)

NOTE:-

1.1 Bidders participating in online tenders shall check the validity of his/her Digital Signature. Certificate before participating in the online Tenders at the portal <https://etenders.hry.nic.in>.

1.2 For help manual please refer to the 'Home Page' of the e-Procurement website at <https://etenders.hry.nic.in>, and click on the available link 'How to...?' to download the file.

TENDER FORM

TECHNICAL BID Eligibility criteria:-

1. The Prospective Bidder i.e. Firm / Partnership Firm / Company etc. must fulfill the following technical qualification/criteria along with other technical documents required/stated in the tender form.

Co-gen Plant:-

Sr.No.	Description	Proposed Amendments
1	Definition of bidder	Bidder shall either be a company incorporated under the Companies Act, 1956/2013 or partnership/proprietorship firm or L&C society or Joint Venture or Consortium. Consortium/JV may be of any combination of entities.
2	Technical Eligibility	(i) Prospective bidder should have minimum 02 years experience during the last 5 years (2021-22 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 3500 TCD & above working Sugar mills having 16 MW & above Cogen units during the last five years (i.e. 2021-22 to 2025-26) and furnish a performance certificate issued by the concerned sugar mills indicating achievement of below said performance parameters. or ii) Minimum 01 year experience during the last 3 years (2023-24 to 2025-26) prescribed O&M work of complete repair & maintenance of 3500 TCD & above working Sugar mills having 16 MW & above Cogen units during the last three years (i.e. 2023-24 to 2025-26) and furnish a performance certificate issued by the concerned sugar mills indicating achievement of below said performance parameters. Or (iii) Prospective bidder should have minimum 02 years experience during the last 5 years (2021-22 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 3500 TCD & above working Sugar mills having 16 MW & above Cogen units of atleast three sections amongst the following five sections during the last five years (i.e. 2021-22 to 2025-26) or Minimum 01 year experience during the last 3 years (i.e. 2023-24 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 3500 TCD & above working Sugar mills having 16 MW & above Cogen units of atleast three sections amongst the following five sections during the last three years (i.e. 2023-24 to 2025-26) the and furnish a performance certificate issued by the concerned sugar mills indicating achievement of containing below said performance parameters. a) Mill House b) Boiler c) Turbine /Cogen/Switchyard, d) Electrical/ Instrumentation e) Boiling house (iii) Required Documents a) Copy of required work order

		b) RT(8C) of the mill/mills issuing work order. c) The performance certificate duly signed by the head of the unit and must satisfy at least three performance parameters from the following performance parameters:- 1. Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. 2. Total losses – Less than or equal to 2 % 3. Bagasse Pol - Less than or equal to 2 % 4. Steam Consumption – Less than or equal to 42 % for Co-generation Units and less than or equal to 50 % for Non Co-generation units 5. Final Molasses Purity – 31 % or below Or <u>3. In Case of Consortium or Joint Venture</u> No member applying individually or as a member of consortium, as the case may be, can be a member of another consortium. Maximum three members can form a consortium. In case of consortium, each member should have at least 24% share in the consortium with lead member share of at least 51% and every consortium member should have experience of repair, maintenance and operation of at least one different section as required in the terms and condition of tender document i.e. a. Mill b. Boiler c. Turbine d. Boiling House Lead member shall be responsible for achieving the performance parameters and other terms and condition of tender. No change in lead member is allowed during the contract period and Mills shall only communicate with lead member for all intent and purposes. The term bidder used herein would apply to both a single entity and a Consortium. Prospective bidder should have minimum 02 years experience during the last 5 years (2021-22 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 3500 TCD & above working Sugar mills having 16 MW & above Cogen units of atleast three sections amongst the following four sections during the five years (i.e. 2021-22 to 2025-26) OR minimum 01 year experience during the last 3 years (i.e. 2023-24 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 3500 TCD & above working Sugar mills having 16 MW & above Cogen units of atleast three sections amongst the following four sections during the three years (i.e. 2023-24 to 2025-26) and furnish a performance certificate issued by the concerned sugar mills indicating achievement of containing below said performance parameters.
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		For Co-Gen: 1. Mills House - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Bagasse Pol - Less than or equal to 2 % 2. Boiler - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Steam Fuel ratio should be between 2.2 to 2.4 3. Turbine - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Specific Steam Consumption (ton/MW) should be less than 5.6 ton/MW 4. Boiling House - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Final Molasses Purity – 31 % or below - Steam Consumption less than or equal to 42% Required Documents - Copy of required work order - RT (8C) of the mill/mills issuing work order. - The performance certificate duly signed by the head of the unit.
3	Financial Eligibility	The bidder should have a minimum average annual financial turnover (As certified by the chartered accountant) during the last three years i.e. (2023-24, 2024-25 and 2025-26) ending 31st March of the financial year, should not be less than Rs. 3.00 crore of the project cost. 2. Certificate from the statutory auditor/charter accountant with UDIN on their letter head confirming annual turnover for each of the last 3 Financial years i.e. (2023-24, 2024-25 and 2025-26) along with last 3 years balance sheet, specifically as per requirement at annexure standard formats of proposal.
4	Performance Parameters	(a) Bagasse Pol - less than or equal to 2% (b) Moisture bagasse – less than or equal to 50% - Loss :– Maximum 2% on cane is admissible on account of loss in Bagasse, Press Mud, Molasses and unknown. - Gross Capacity Utilization: - Minimum 90% Gross capacity utilization (excluding no cane stoppages) should be achieved. - Steam consumption % cane with sugar refinery = 42% - Final Molasses Purity should be less than or equal to 31%. - Quality of Sugar: - The quality of refined sugar will be of less than 60 ICUMSA.

5	Penalties	1. Repair and Maintenance: In case it is observed by the Mill Management that Off-season repair and maintenance work is not being completed in the given time schedule (i.e. within one month after placing of LOI/work order for 2026 and 15th October for 2027) then penalty will be imposed @ 0.5% per day, but not exceeding 10 % (Ten Percent) of the Lump sum rate quoted for one off-season contract Price. 2. Operation of the MILL: In the event of not achieving any of the above-mentioned performance parameters during the crushing season, the penalty shall be imposed of Rs 2.00 Lakhs (Rs. Two Lakhs) only per parameter per month for each operating season,
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Non-Co-gen Plants:

Sr.No.	Description	Proposed Amendments
	Definition of bidder	Bidder shall either be a company incorporated under the Companies Act, 1956/2013 or partnership firm or L&C society or Joint Venture or Consortium. Consortium/JV may be of any combination of entities.
1	Technical Eligibility	1. Prospective bidder should have minimum 02 years experience during the last 5 years (2021-22 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 1750 TCD & above working sugar mills the last five years (i.e. 2021-22 to 2025-26) or minimum 01 year experience during the last 3 years (i.e. 2023-24 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 1750 TCD & above working sugar mills during the last three years (i.e. 2023-24 to 2025-26) and furnish a performance certificate issued by the concerned sugar mills indicating achievement of containing below said performance parameters. or 2. Prospective bidder should have minimum 02 years experience during the last 5 years (2021-22 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 1750 TCD & above working Sugar mills of atleast three sections amongst the following five sections during the last five years (i.e. 2021-22 to 2025-26) or minimum one experience during the last three years (i.e. 2023-24 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 1750 TCD & above working Sugar mills of atleast three sections amongst the following five sections during the last three years (i.e. 2023-24 to 2025-26) and furnish a performance certificate issued by the concerned sugar mills indicating achievement of containing below said performance parameters. a) Mill House b) Boiler c) Turbine d) Electrical/ Instrumentation e) Boiling house (Pan and centrifugal section).

		Requirement Documents:- a) Copy of required work order b) RT(8C) of the mill/mills issuing work order. c) The performance certificate duly signed by the head of the unit and must satisfy at least three out of the five parameters mentioned below: 1. Capacity utilization – 90 % and above (excluding stoppages due to non-availability of cane or bad weather. 2. Total losses – Less than or equal to 2 % 3. Bagasse Pol - Less than or equal to 2 % 4. Steam Consumption – Less than or equal to 42 % for Co-generation Units and less than or equal to 50 % for Non-co-generation units 5. Final Molasses Purity – 31 % or below Or <u>3. In Case of Consortium or Joint Venture</u> No member, whether applying individually or as a member of a consortium, may be a member of another consortium. A maximum of three members can form a consortium. In case of consortium, each member should have at least 24% share in the consortium with lead member share of at least 51% and every consortium member should have experience of repair, maintenance and operation of at least one different section as required in the terms and condition of tender document i.e. a. Mill b. Boiler c. Turbine d. Boiling House Lead member shall be responsible for achieving the performance parameters and other terms and condition of tender. No change in lead member is allowed during the contract period and Mills shall only communicate with lead member for all intent and purposes. The term bidder used herein would apply to both a single entity and a Consortium. Prospective bidder should have minimum 2 years experience during the last 5 years (2021-22 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 1750 TCD & above working Sugar mills of atleast three sections amongst the following four sections or minimum 1 year experience during the last three years (i.e. 2023-24 to 2025-26) in the prescribed O&M work of complete repair & maintenance of 1750 TCD & above working Sugar mills of atleast three sections amongst the following four sections during the last three years (i.e. 2023-24 to 2025-26) and furnish a performance certificate issued by the concerned sugar mills indicating achievement of containing below said performance parameters.
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		For Non-Co-Gen: 1. Mill House - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Bagasse Pol - Less than or equal to 2 % 2. Boiler - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Thermal Efficiency shall be more than 60% on GCV - Bagasse Savings shall be more than 3% 3. Turbine - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Specific Steam Consumption (ton/MW) should be less than 10.5 ton/MW 4. Boiling House - Capacity utilization – 90 % and above (excluding stoppages due to non availability of cane or bad weather. - Final Molasses Purity – 31 % or below - Steam Consumption less than or equal to 42% Required Documents - Copy of required work order - RT (8C) of the mill/mills issuing work order. - The performance certificate duly signed by the head of the unit.
2	Financial Eligibility	- The bidder should have a minimum average annual financial turnover (As certified by the chartered accountant) during the last three years i.e. (2023-24, 2024-25 and 2025-26) ending 31st March of the financial year, should not be less than Rs. 2.00 crore of the project cost. - Certificate from the statutory auditor/charter accountant with UDIN on their letter head confirming annual turnover for each of the last 3 Financial years i.e. (2023-24, 2024-25 and 2025-26) along with last 3 years balance sheet, specifically as per requirement at annexure standard formats of proposal.
3	Performance Parameters	- Bagasse Pol – less than or equal to 2.0(In case PI > 80) - Moisture bagasse < 50.0 % (In case PI > 80) Or - Bagasse Pol < 2.10 (In case PI < 80) - Moisture bagasse < 50.50% (In case PI < 80) - Maximum 2% on cane is admissible on account of loss in Bagasse, Press Mud, and Molasses and unknown. - Gross Capacity Utilization: - Minimum 90% Gross capacity utilization (excluding no cane stoppages) should be achieved overall for the said crushing season. - Steam consumption % for Non Co-gen Mills = 49%

		5. Final Molasses Purity should be less than or equal to 31% 6. Quality of Sugar: - The quality of refined sugar will be of less than 60 ICUMSA.
4	Penalties	1. Repair and Maintenance: In case it is observed by the Mill Management that Off-season repair and maintenance work is not being completed in the given time schedule (i.e. one month after placing LOI/ Work order for 2026 and 15th October for 2027) then penalty will be imposed @0.5% per day, but not exceeding 10 % (Ten Percent) of the Lump sum rate quoted for one off-season contract Price. 2. Operation of the MILL: In the event of not achieving any of the above-mentioned performance parameters during the crushing season, the penalty shall be imposed of Rs 2.00 Lakhs (Rs. Two Lakhs) only per parameter per month for each operating season. Which are given below:- 1 (a) Bagasse Pol – less than or equal to 2%(In case PI > 80) (b) Moisture bagasse < 50 %(In case PI > 80) Or a) Bagasse Pol < 2.10 (In case PI < 80) (b) Moisture bagasse < 50.50% (In case PI < 80) 2. Maximum 2% on cane is admissible on account of loss in Bagasse, Press Mud, and Molasses and unknown. 3. Gross Capacity Utilization: - Minimum 90% Gross capacity utilization (excluding no cane stoppages) should be achieved overall for the said crushing season. 4. Steam consumption % for Non-Co-gen Mills = 49% 5. Final Molasses Purity should be less than or equal to 31% 6. Quality of Sugar: - The quality of refined sugar will be of less than 60 ICUMSA.

Note:-

1. The Technical Bid eligibility criteria of Co-gen plant may be considered eligible for Non-cogen plant in terms of Technical eligibility and financial eligibility. But in case of Co-gen plant, it is mandatory to consider eligibility criteria for co-gen plant only.
2. Bidder shall not be black-listed at the time of submission by any Cooperative Sugar Mills of Haryana.
3. The repair & maintenance contract period is for two years which can be extendable for further one year on the basis of performance.

Financial Bid

For negotiation purposes L1, L2 and L3 Prospective Bidder /Party will be determined as follow: -

Sr No.	Rate quoted by the Party/Bidder for Season /Crushing season in Financial BOQ	Off- Basic Amount (In Rs)
A	Lump sum rate quoted for one off-season-	
B	Monthly Lump sum rate quoted for crushing season.	
C	Grand Total or say rate to be considered for determination of L1,L2 and L3 ($A+(B*5)$)	

Note:

1. A= Lump sum rate of quoted for one off-season.
2. B= Monthly rate for crushing season.
3. C= Grand Total or rate to be consider for determination for L1, L2 and L3
4. $C = (A+(B*5))$ (By assuming five months of crushing season)

1.0 BANK GUARANTEE (BG)

To secure the contractual obligations of the PARTY at their own cost shall furnish to the MILL, a Performance Bank Guarantee(BG)as per the prescribed format for 5% performance security of contract value for one year in the shape of Bank Guarantee / DD will be required to be deposit after adjustment of EMD amount of any Nationalized/Scheduled bank prior to the signing of the Contract. This BG shall be valid upto September, 2028 from the date of signing of Contract, whichever is later. If PARTY fails to submit the above said Bank Guarantee with in stipulated period EMD deposited by PARTY will be forfeited.

In the event of breach of contract/ failure of contractual responsibilities/ if repairs work are left unfinished & incomplete/ unable to operate the plant in complete season etc .by the PARTY then MILL shall have the full rights to invoke the BG.

The earnest money deposited with bid will be converted into Bank Guarantee /Security, no interest will be given. The security will be refunded after three month of completion of crushing season 2027-28 subject to cleaning of Plant.

2.0 CHARGES

- 2.1 Lump sum charges per month during Seasons for operation of the MILL (which includes refined sugar plant & Co-generation Plant) during the crushing seasons 2026-27 & 2027-28 and during off seasons for Repair and Maintenance, a Lump Sum charges for the off-season 2026& 2027 shall be payable for all the services of annual overhauling and repair and maintenance as quoted by the Party and finally negotiated by the Competent Authority of the Mills. For the purpose of determining the L1, the crushing season shall be considered five months, and the off-season shall be considered seven months
- 2.2 GST, Duties, and other levies as applicable shall be charged extra to Mill, at actual prevailing rate as per applicable norms.
- 2.3 TDS (Tax deduction at source) at prevailing rate shall be deducted by the Mill while releasing the payment to the Party as per applicable norms.
- 2.4 The period/duration of crushing season will be calculated from seven days before the actual date of start of crushing and seven days after the actual close of crushing. The date of start and closing of crushing season will be determine as per RT8-C of the crushing season.

3.0 PAYMENT TERMS

3.1 DURING OFF SEASONS:-

- a) The party will supply the price break up for entire contract period and time schedule of the dismantling and repair & maintenance station wise along with civil work immediately after signing of Contract with consultation of mill staff. This price break will be approved by mill Management within one week of submission of price breakup. Payment will be released accordingly on the submission of invoice after deducting the advance given to the Party (if any). The party will submit the invoice for payment on the basis of actual work done at each station corresponding to approved price break-up once in a month

after completion of the month within the first week of the next month. Bill will be verified by technical staff under the supervision of **Mill Chief Engineer and Chief Chemist** as per actual work done at each station corresponding to approved price break-up.

- b) During Off-Season maximum payment of 20 % of approved price break-up of each station shall be made for dismantling work and payment will be made as per percentage dismantling progress of each station.
- c) Maximum payment of 50% of approved price break-up of each station shall be made for the repairing and overhauling and payment will be made as per percentage repair progress of each station.
- d) Payment of 10% of approved price break-up of each station shall be made after the trial of each station of the plant and payment will be made as per percentage trial progress of each station.
- e) Balance 10% payment of approved price break-up of each station shall be made after 7 days of successful running of the plant from the date of start of the cane crushing.
- f) Remaining balance 10% payment of approved price break-up of each station shall be made after 30 days of successful running of the plant from the date of start of the cane crushing.

Note:-

- 1. **R.T.8 (C) is final manufacturing report for the cane crushing season prepared in prescribed format of Central Excise Rule 83. It is authentic document of any sugar factory having mandatory disclosure of technical performance of the factory.**
- 2. **GST charged in the bills by the prospective bidder/ party should be payable 100% after deducting the applicable TDS at the time of above said payments. In this regards Prospective bidder/ party will provide the proof of payment of said charged GST to the GST department.**

3.2 During Season:-

The rates for operation of plant during the season will be decided and paid on per month basis. The PARTY will submit the invoice for payment once in a month after completion of the month with in the first week of the next month. Ninety percent (90%) payment of monthly Season bill will be made within Ten days after submission of invoice/bill. Payment of balance Ten Percent (10%) will be made after finalization of R.T.(8) C latest by two months from the end of Crushing Season.

Note:- GST charged in the bills by the prospective bidder/ party should be payable 100 % after deducting the applicable TDS at the time of above said payment. In this regards prospective bidder/party will provide the proof of payment of said charged GST to the GST department.

- 3.3 All taxes i.e., TDS under Income Tax Act and GST Act etc. as applicable will be deducted at source.
- 3.4 After closure of every crushing season including the going out season a few jobs should be completed which are mandatory for any sugar factory like: Boiling House process, production of Brown /BSS Sugar, cleaning of complete plant, washing of all Mill House and boiling house vessels, scrapping of sugar, weighing & shifting of brown sugar to storage place, dismantling of cane carrier chain and mill rollers etc. will be off season work. PARTY will ensure that these jobs are completed prior to submission of final bill for payment

otherwise Mills shall have right to deduct the amount required to be spent to carry out the above said mandatory jobs in the scope of Party.

3.5 Final payment shall be made by the MILL within 15 days of submission of proof of payment of all government dues and all labour/ workmen dues, including PF, ESI GST etc. are already paid by the Party and Party will also provide the declaration in the form of affidavit in this regard.

3.6 In Case, bidder fails to pay the wages to the staff/sub-contractor deployed at concern sugar mills plant and repair & maintenance/ operation is held up, mill management has right to pay and recover the same from bidder's bill.

4. Damage to Machinery:-

4.1 If any machinery/parts are damaged during repairing work in off-season or during operation in season, a committee headed by Managing Director of the mill will review. If damage took place due to manufacturing defects, then loss will be borne by the mill. If machinery get damaged solely due to negligence of any staff of PARTY, then loss liabilities will be borne by the PARTY. The decision with respect to fixing of responsibility/ loss responsibility shall be determined by the committee headed by Managing Director, of concern sugar mills whose decision shall be final and binding subject to insurance claim.

5. Settlement of Disputes:-

5.1 Amicable settlement

The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Agreement or the interpretation thereof.

5.2 Dispute resolution

Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Job (including its interpretation) between the Parties, and so notified in writing by either Party to the Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Clause 12.3.

5.3 The Parties agree to use their best efforts for resolving all Disputes arising under or in respect of this job promptly, equitably and in good faith, and further agree to provide each other with reasonable access during normal business hours to all non-privileged records, information and data pertaining to any Dispute.

5.4 Conciliation

In the event of any Dispute between the Parties, either Party may call upon, DC cum Chairman of concerned Sugar Mills and upon such reference, the said persons shall meet not later than 10 (ten) days from the date of reference to discuss and attempt to amicably resolve the Dispute. If such meeting does not take place within the 10 (ten) day period or the Dispute is not amicably settled within 15 (fifteen) days of the meeting or the Dispute is not resolved as evidenced by the signing of written terms of settlement within 30 (thirty) days of the

notice in writing referred to in Clause 14.2 or such longer period as may be mutually agreed by the Parties, either Party may refer the Dispute to arbitration in accordance with the provisions of Clause 15.

6.0 Arbitration Clause

If at any time, any question, dispute, or difference whatsoever, arises between the parties in relation to or in connection with or arising out of this Agreement, either party may give to the other party notice in writing of the existence of such question, dispute, or difference and the same shall be referred to the arbitration of sole Arbitrator who shall be appointed by the Managing Director, Haryana State Federation of Co-operative Sugar Mills Limited. The award of the said single Arbitrator, as the case may be, shall be final and binding on both the parties. The arbitration proceedings shall be governed by the provisions of The Arbitration and Conciliation Act, 1996 and the rules framed there under, read with all statutory amendments and modifications thereof. Cost of Arbitration shall be borne by the party's as may be decided upon by the arbitrator.

7.0 Jurisdiction of Court

All disputes arising are subject to the jurisdiction of High Court of Punjab and Haryana and Courts subordinate these to concern sugar mills site.

8.0 Validity of Offer not applicable in agreement

Offer of the tender should be valid for the 90 days from the date of opening the tender.

9.0 Period of Contract

The Contract to be executed between the Successful Tenderer and Mill shall be valid upto finalization of R.T. (8) C for crushing season 2027-28.

10.0 Force Majeure

Definition:-

- (a) The right of the PARTY to proceed with the work shall not be terminated because of any delay in the completion of the work due to unforeseen causes beyond the control and without the fault or negligence of the Party or their sub-contractors including (but not restricted to) Act of God or Public enemy, action of Govt. in its sovereign capacity, floods, epidemics, quarantine, strike, lock-outs, fires, explosions, accident, stoppage in the supply of power, civil commotion, riots, etc. In the event of any of the aforesaid contingencies, unusual or extra ordinarily prolonged, the Mill will be promptly kept informed by the Party by Fax/ E-mail followed by confirmation in writing with documentary proof within 15days of the commencement and completion of force majeure circumstances. This force majeure clause shall also apply to major sub-contractors of Party.
- (b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such Party's Sub-Consultant or agents or employees, nor

- (ii) Any event which a diligent Party could reasonably have been expected to both (A) consider at the time of the conclusion of this Agreement, and (B) avoid or overcome in the carrying out of its obligation hereunder.
- (c) Force Majeure shall not include in sufficiency of funds or failure to make any payment required hereunder.

Measures to be taken

- (a) A Party affected by an event of Force Majeure shall take all reasonable measures to remove such obstacle to the Party ability to fulfill its obligations here under with a minimum of delay.
- (b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any event not later than 14 (fourteen) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give notice of the restoration of normal conditions as soon as possible.
- (c) The Parties shall take all reasonable measures to minimize the consequences of any event of Force Majeure.

11.0 Arrangement of Materials and consumables

- 11.1 A list of required material/ consumables /spare & machinery parts / store materials/ machinery etc. with technical specification, and estimated cost shall be submitted by the BIDDER to the Managing Director of Mill within 05 days from the date of Contract. Keeping in view that progress of repair work may not suffer, the BIDDER shall submit the indents of long delivery/critical items within 10 days from the date of signing of LOI/ contract, whichever is prior in time, so that the same may be arranged by Mill in time.
- 11.2 The BIDDER must provide all the indents (except for emergency purchase) to MILL in consultation with MILL Technical Staff within one month of signing of Contract/ LOI so that MILL can procure store items well in time MILL will procure material and consumables/spare & machinery parts/store materials/machinery/civil material etc. after receiving the indent/ requirement from the BIDDER. Any delay in the supply of material due to late submission of indents by BIDDER or due to any reason will not entitle the BIDDER to any claim. BIDDER should ensure that inventory of the store shall not abnormally increase after the end of the season.
- 11.3 All tools & tackles with specialize tools will be arranged by the bidder.

12.0 Supply of bagasse:-

- 12.1 The supply of bagasse up to the bagasse yard will be the responsibility of the mill. The requirement/ indent will be given by the Party 30 days before start of steam trials.

13.0 SPECIAL CONDITION FOR NEGOTIATIONS

The price discovery for the Rate Contract shall be generally determined based on the rates quoted by the L1 bidder and the negotiations, if any, held with the lowest bidder. However, the rate contract

negotiations could be held up to L3 or more bidder, if the difference between the L1 quoted rates and those quoted by the L2 and L3 or more are within 5% of the L1 quoted rates. In cases where the L1 bidder refuses to further reduce his offered price and the L2 or L3 or more bidders come forward to offer a price which is better than the price offered by L1 bidder, the bidder whose price is accepted becomes the L1 bidder. However, in such a situation, the original L1 bidder shall be given one more opportunity to match the discovered price. In case of acceptance, he would be treated as the L1 bidder.

14.0 Extension of Contract

On completion of contract period, the contract for repair and maintenance and operation of the mill with the Bidder can be extended yearly further for next one crushing season and one-off season after assessing satisfactory performance for preceding crushing seasons. However, contract may be extended with same terms and condition but escalation in rates (Both in Off-Season repairs cost and operation cost during season) is granted based on percentage increase of Labour Price Index (All India Consumer Price Index for Industrial Workers) at the time of extension of Agreement.

Such extension, if any, shall be decided with written mutual consent of the parties, at the relevant point of time and such extension cannot be taken as matter of right.

15.0 Bidder will follow all law of land.

16.0 Termination of Contract:

The Mill management reserves the right to terminate the whole contract at any point of time in the larger interests of the Mill, without issuance of any notice to the Bidder. Besides, the contract could be terminated by the Mills management due to any of the following reasons after getting approved from Haryana Sugarfed.

1. Failure of the Party to provide manpower/services as per the terms and conditions of the contractor assigning or subletting the whole contract to any subcontractor or third party.
2. Deployment of unqualified, unskilled or unauthorized manpower.
3. Submission of false, forged or misleading documents, certificates or information by the Party or deployed personnel.
4. Repeated negligence, misconduct, indiscipline or unsatisfactory performance of the manpower deployed by the Party.
5. Violation of statutory provisions (EPF/ ESI etc.), labour laws, safety regulations or any applicable government rules and regulations.
6. Failure to comply with instructions issued by the Mill Management from time to time.
7. Unauthorized absence, abandonment of work or disruption of services affecting the operations of the Mill.
8. Breach of confidentiality, security norms or any contractual obligations by the Party or its personnel.
9. Insolvency, bankruptcy, dissolution or any legal incapacity of the Party affecting execution of the contract.

10. Any act or omission by the Bidder which, in the opinion of the Mill Management, is prejudicial to the interests of the Mill.
11. Failure to achieve the prescribed performance parameters, standards or service levels specified under the contract.
12. In case, any terms & conditions of the contract are not complied with by the Bidder.
13. In case, the Bidder indulges in illegal/ unlawful activities.

In the event of termination under any of the above conditions, the Mill Management shall have the right to make alternative arrangements at the risk and cost of the Bidder. The Bidder shall not be entitled to claim any compensation, damages or losses arising out of such termination, and the decision of the Mill Management shall be final and binding.

16.1 The contractor shall not assign or sublet the whole of the contract to any subcontractor or third party.

17. **Submission of Tenders.**

1. Managing Director, Haryana State Federation of Cooperative Sugar Federation Ltd., Panchkula reserves the right to accept or reject the tender without assigning any reason thereof and to negotiate the terms & conditions in the interest of the Sugar Mills.
2. The technical bid will be opened on 30.09.2026 at 04:00 PM and technical shortlisting & evaluation alongwith financial bid opening on 01.10.2026 at 10:00 A.M by the committee constituted for the purpose in the office of the HARYANA Sugarfed, Panchkula. The negotiations will be held by the High Powered Purchase Committee of the Govt. The date, time and venue of negotiations to the lowest rate of valid tenderers/party will be intimated later on.
3. The successful tender(s) will have to sign a legal agreement on non-judicial stamp paper of Rs.15/- before the execution of the contract.

MANAGING DIRECTOR

HARYANA STATE FEDN. OF COOPERATIVE SUGAR MILLS LTD.

Note : Each page of the tender form should be signed by the firm/party with their stamp/seal.

All the annexures are available at Director, Supplies and Disposal site .

Cluster -1

1. The Panipat Coop. Sugar Mills Ltd., Panipat

Scope of Work:

The scope of work will involve Contract of complete operation and maintenance of Refined Sugar Plant of 5000 TCD along with 28 MW Co-generation Plant for the off seasons 2026 and 2027 and crushing seasons 2026-27 and 2027-28 i.e., repair & maintenance of plant during off seasons 2026 and 2027 as well as trial/testing and Operation (along with repair & maintenance of plant during seasons) of the Plant during the crushing seasons 2026-27 and 2027-28 *shall include but not limited to the following:-*

Repair Maintenance Work during Off-seasons 2026 & 2027:-

1.1(1) Mill will provide the existing available technical staff of Engineering and Manufacturing Department **(up to the level of Supervisory Staff except HODs, Dy. HODs and Engineers/Chemists)** available with the Mills. The Existing available permanent manpower of the mills in 2026 & 2027 for the repair and maintenance of the plant during off-seasons is annexed as Annexure-A & AA. To R&M of the Plant in a smooth manner rest of remaining required staff/manpower as per Haryana Coop. Sugar Mill Sanctioned Staff Strength for 5000 TCD Sugar Mill Plant along with 28 MW Co-gen Plant/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters. The Existing manpower of the mills (as per list annexed as Annexure-A & AA) will be utilized by the party at the relevant post looking at suitability by the Party and balance vacant manpower will be arranged by Party. Vacant post manpower is mandatory to be deployed by party. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure satisfactory R&M work. Party to ensure to engage and depute at least one Technical Head of Mechanical Side and One of process side along with Engineering section in charges at Mill, Boiler, Turbine, Electrical, Instrumentation, Boiling House and Manufacturing side Chemists at Clarification, Evaporator, Pan, Centrifugal, Refinery Section, ETP and sufficient manpower/staff to carried out all R&M work well in time during off-season to run the plant efficiently during crushing seasons. The workers out of the above list deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management at the time of entering into contract and if any change/addition. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found of more than 10% then a pro-rata deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

1.1(2) For smooth functioning of the Mill, off-season repair & maintenance of all sections/stations from cane unloading to final sugar bagging involving all civil, mechanical, electrical & instrumentation including DCS work except Overhauling of 28 MW Power Turbine from OEM (OEM will supervise the overhauling work only and

required technical staff for the overhauling will be provided by the O&M Contractor), Mechanical Fabrication and Erection jobs of Plant (Only Iron and steel), Relay testing of 132 KV Switchyard/transformer/28 MW generator protection and synchronizing system and Electrical Modification if any &electrical fabrication (i.e Replacement of any damaged cable, installation of electrical poles, earthing pit work only), from cane unloader to final molasses storage tank including sugar stacker, belt conveyor system, ETP & all weighing scales must be checked and repaired by the PARTY.

1.1(3) AMC for following Servicing/repairing of various equipment's and machinery except Power Turbine/ Relay testing of 132 KV Switchyard/transformer/28 MW generator protection and synchronizing system, shall be got done by the successful bidder from the OEM (Original Equipment Manufacturer)/ OEM authorized service provider. The copies of orders placed with the OEM/OEM authorized service provider shall have to be submitted to the mills within 45 days of entering into contract/ending of the crushing seasons. The bidder shall have to provide the certificates of services/repair carried out from OEM (Original Equipment Manufacturer)/ OEM authorized service provider atleast 20 days before the schedule of trials of the plant. In case of the failure of non-submission of work order in the schedule time, the mill management shall have at liberty to get done the left-out work from the OEM at the risk and cost of the contractor.

All VFD (100 Nos)	Make - ABB, Mitsubishi, Siemens, Yoshikawa
1250 KVA D.G Sets along with Panel- 02 Nos and ACB- 05 Nos	Make- Cummins
All Plant Industrial AC (Approx. 280 Ton.)	Make- Voltas/Hitachi/Mitsubishi/O-Gernal
VCB 17 Nos (TG Incomer 2500 AMP, Export 2500 Amp, Spare 1250 Amp, SCF-02 Outgoing 1250 Amp, Co-gen TRF NO.1 1250 AMP, Co-gen TRF NO.2 1250 AMP, Earthing TRF 1250 AMP, Export Switchyard 2500 Amp, SCF-02 Incomer 1250 Amp, Boiling House TRF No.1 1250 Amp, Boiling House TRF No.2 1250 Amp, Mill House Dist. TRF 1250 Amp, Mill House CONV. TRF No.1 1250 AMP, Mill House CONV. TRF No.2 1250 AMP, 1000 KW HT Motor No.1 1250 AMP, 1000 KW HT Motor NO.2 1250 AMP, Spare 1250 AMP	Make- ABB
AMC of complete plant DCS	Make- ABB
PCC Panels Power House- 01 No. (27 Nos ACB) Mill House- 01 No. (09 Nos ACB) Boiling House - 01 No. (22 Nos ACB)	ABB

Battery Charger:- Turbine- 01 No. Switchyard - 01 No. Data transmission Line- 01 NO.	Uni Insta, Radetron and JVV Electrometer
UPS:- Turbine- 01 No. Mill House- 01 No.	Make- Hitachi
HT Capacitor Bank	
ESP with panel - 01 No.	Thermax
Feed Pumps-04 Nos	KSB
Power Transformers - 08 Nos 35 MVA- 01 No 2.6 MVA -02 Nos 3 MVA- 02 Nos 2.5 MVA - 03 Nos	Voltamp
AMC of Mill Dual Lubrication System	Make- Lincoln SKF
WTP	Membrane India
AMC of Power Generation and export online data transfer to SLDC	Lycast
AMC of online data transfer of Stack and ETP at CPCB & HSPCB Server	Reputed Professional service provider duly authorized by CPCB.
Transformers Oil dehydration	Reputed Professional service provider
Mill & GRPF gear box services at site - 05 Nos	Premium Transmission Private Limited.
Mill gear box oil dehydration.	Reputed Professional service provider
Turbine Oil Dehydration	Reputed Professional service provider
Turbine Condenser, Oil cooler, Ejector & GCV Tubes jet cleaning.	Reputed Professional service provider
Complete Plant flow meters calibration with calibration certificate.	Reputed Professional service provider
Air Compressors (09 Nos)	Chicago, Elgi
Balancing of Centrifugal Machines Baskets.	Reputed Professional service provider

Note:- AMC of Power Turbine from OEM i.e Triveni/ Relay testing of 132 KV Switchyard, transformer, 28 MW generator protection and synchronizing system shall be in the scope of Sugar Mill but all subordinate supporting staff during dismantling, overhauling and assembling will be provided by the successful bidder.

- 1.1(4) The Party will prepare a report of assessment of work and will provide a copy of report along with required consumables/spare & machinery parts/store materials/Fabrication and Erection work/machinery etc. to MILL after receiving of final work order.
- 1.1(5) All consumables and material required by the PARTY to repair the Plant will be arranged by the Mill as and when required on time-to-time basis.
- 1.1(6) Fabrication/erection work which is required for smooth functioning of the MILL, will be done by the Mills. Replacement of Valves, Motors and any machinery repairing works are not the parts of Fabrication/Erection work, only replacement of MS/SS Plates, Worn-out pipes, bends, nipple and strengthen of plant wherever is required will be consider the part of fabrication/Erection only.
- 1.1(6 (i)) Electrical Modification/Fabrication work which is required for smooth functioning of the MILL, will be done by the Mills. Replacement/repairing of any electrical equipment's are not the part of Electrical Modification work. Only, replacement of damaged cables, laying of any new cable, repairing/modification of earthling pits will be in the scope of mills and rest R&M of electrical equipment's of complete plant shall be in the scope of successful bidder.
- 1.1(7) All Chains i.e Cane Carrier, Main Rack Carrier, All Inter Rack Carriers, Bagasse Elevator, Main Bagasse Carrier and Boiler Travelling grate shall be completely dismantled repaired and assembled during current off-season is mandatory.
- 1.1(8) All the repair & maintenance work of the MILL in Off seasons 2026& 2027 should be completed by the PARTY within one month after placing the LOI/ work order for the year 2026 & upto 15th October for 2027.
- 1.1(9) If any of the machinery items is required to be replaced by new one, the same shall be decided jointly by PARTY Senior Technical persons nominated by them and Technical Officer of the Mills nominated by the Managing Director of Sugar Mill. In case any dispute /disagreement amongst the two, the decision of MD, Panipat Cooperative Sugar Mills Ltd. shall be final.
- 1.1(10) Quality of purchased material required for repair, maintenance and replacement shall be inspected jointly by Sr. Technical representative of the PARTY along with Chief Engineer of Mill for Engineering Department and Chief Chemist of Mill for Manufacturing Department and in case of any dispute with respect to quality of purchased/supplied material, the decision of MD, Panipat Cooperative Sugar Mills Ltd., shall be final.
- 1.1(11) During Off-seasons and Crushing seasons expenditure incurred on labor component of rewinding of motor and alternators (including spare and standby) will be in the scope of work of PARTY. PARTY shall ensure that all burnt / damaged motors shall be got repaired by their own staff or by reputed rewinder/authorized works during off-seasons and crushing seasons. New motor will be purchased

only when it is beyond repair and the decision of MD, Panipat Cooperative Sugar Mills Ltd., shall be final.

- 1.1(12) Work related with cleaning along with sanitation of entire plant except offices i.e cane carrier, different houses including all floors, factory entire inside and outside roads, all Control Rooms, all drains in plants, All Cable Trench will be opened cleaned & recovered, cleaning of Quad bodies/ Juice Heaters/ Pans, Drier House, Boiler Internal & External Cleaning, Mill house, TG Oil cooler, TG Condenser, Spray Pond, Cooling Tower, Lagoon, ETP & all washrooms etc. and shifting of scrap from different houses to scrap yard during off season and crushing season shall be in the scope of work of PARTY.
- 1.1(13) Workshop will be run & managed by PARTY in crushing seasons and off-seasons both. Reshelled rollers (with grooving and journal machining) will be provided by MILL but chevron grooving and other related work shop jobs will be in the scope of PARTY. Similarly, only material of Trash Plates, scrappers & others CI/CS/GM casting material will be arranged by MILL and workshop related jobs such as machining and grooving will be in the scope of PARTY.
- 1.1(14) Unloading of Material from vehicle to store and handling of material from the store to site, like lubricants, lime, gunny/pp bags /fertilizer & pesticides and chemicals etc. shall be in the scope of work of PARTY.
- 1.1(15) To obtain NOC from Air and Water Pollution Control Board/ Boiler Inspector will be in the scope of work of the Party and required Fees will be deposited by Mill.
- 1.1(16) Factory has Industrial power load from HVPNL. This power is used only to start the plant and to perform the test and trial of the plant. PARTY should utilize this grid power with installed DG sets in such a way that maximum demand should not be exceed to contracted load otherwise penalty will be charged by HVPNL on this account. If in any month penalty on account of additional Maximum Demand is charged by HVPNL, same will be borne by PARTY. However, if the demand exceeds due to instructions of the MILL, the penalty charged by HVPNL will be to the account of the Mill.
- 1.1(17) All DG sets/Tube wells/Weighing Scales will be maintained and run by the PARTY as per direction of MILL Technical Staff but requisite consumables, spares/ parts/ HSD/ electrical power etc. will be provided by Mill.
- 1.1(18) During off season and crushing season, if any machinery/machinery parts/equipment's are repaired by PARTY from outside agency's workshop the expenditure incurred on transportation will be borne by PARTY.
- 1.1(19) Satisfactory Repair & Maintenance Certificate from the Management shall be required.

- 1.1(20) After repairing of equipment's painting work will be in the scope of bidder. Painting work will be carried out by bidder as per direction of Mill. Required Paints & other related material will be given by Mill.
- 1.1(21) Daily/Weekly/Monthly Progress Review report asked by the Mill Management/Haryana Sugar Federation/State Govt shall be submitted to the Mill within given time frame.
- 1.1(22) During Off-season Thickness monitoring, Ultrasonic testing, MPI, etc. of plant tubes, shafts, gear etc. will also in bidder scope. Bidder should submit all testing reports to Chief Engineer and Chief Chemist Office of PCSML.
- 1.1.1 (23) On issuing of work order, the bidder will check and submit its technical assessment report pertaining to the pending jobs if any, in consultation with technical team of Panipat Sugar Mill. If No report received within 15 days, in that case any such complaint at a later stage shall not be entertained for obtaining the required performance parameters.
- 1.1 (24) Any equipment/part/machine send for repair and maintenance to any outside vendor/service provider and the cost involves spares, material and labour charges, in that case the rates of material will be assessed and decided by Management of the mill.
- 1.1 (25) Motor rewinding up to 75KW will be done by mills through local reputed motor rewinder subject to labour component of motor rewinding will be debited from O&M Contractor Account/Bills and motor rewinding required material cost will bear by the mills (As already mentioned in clause 1.1(11)). Electrical Motors more than 75 KW rewinding will be in the scope of O&M Contractor including transportation if any subject to required material cost only will bear by the mills. If plant operation during crushing season will be suffered due to brunt of any motor, then same will be hired on rent to ensure the desired performance/rated capacity of plant will be in the scope of successful bidder.
- 1.1(26) Work already executed/completed by mills during the off-season 2026 are mentioned below:-
- Dismantling of all mills including cane carrier and inter rack carrier chains.
 - Grooving of 09 Nos Mill Rollers completed.
 - Dismantling of Turbine casing.
 - Repairing of 08 Nos Mill Rollers wear-out crown pinions.
 - Repairing of 02 Nos Trash Plate including Hard facing.
 - Dismantling of Fibrizer Rotor and 160 nos Hammers.
 - Dismantling of Leveller Shaft for replacement of damaged Hub.
 - Repairing of 02 Nos Feed Transfer Pumps.
 - Cleaning of Mill Rollers All Crown Pinions.
 - Cleaning & painting of all 04 Nos Mill Head Stocks.

Operation of MILL during crushing season 2026-27& 2027-28:-

The scope of work for smooth and efficient operation of the plant, which includes operation of 5000 TCD Refined sugar plant & 28 MW Co-generation Plant during the crushing seasons 2026-27& 2027-28 will involve all jobs required for operation of plant at all the stations and sections from unloading of sugarcane to bagging and

Stacking of sugar i.e Mill, Entire process house with refinery, Co-gen plant, Electrical, Instrumentation with DCS, Water Treatment Plant, Effluent treatment plant as per CPCB/HSPCB norms, ESP, Workshop, handling of Bagasse, handling and shifting of ash, handling and shifting of press mud, packing of sugar in 50 kg HDPE bags, shifting of 50 kg sugar bags to godowns and stacking of bags in godowns. Operation of Air and Water pollution control system including online data transfer, DG sets, Firefighting system, Tube well, Molasses/Sugar/Bagasse (Main) weighing bridge operation, switchyard, preparation of Export–Import energy bill, collection and cleaning of scattered cane at donga and trolley & trucks of unloaded cane and cleaning/sanitation of entire premises including roads, collection of scattered bagasse nearby area of boiler, bagacillo blower and washrooms etc including civil., will be in the scope of Bidder except for following jobs.

1. Sale of Sugar
2. Sale of Molasses
3. Sale of Bagasse and Press mud
4. Sale of scrap
5. Supply of sugarcane upto Cane carrier.
6. All administrative works.

Beside as mentioned in the tender form as and where required Party should note please:-

1. Analysis of the laboratory shall be done by MILL and DMR (Daily Manufacturing Report) as well as DWR (Daily Working Report) and other required laboratory reports will jointly be signed by both the parties. Party may depute their laboratory staff in depend entry to counter check the analysis report. Manpower deputed by bidder at laboratory for counter checking will be paid by the bidder itself.
2. All consumables and spares required for smooth operation of the Plant will be provided by the Mill.
3. In order to achieve consistent flow rate and net juice during season and to avoid any dispute regarding cane weighment and cane crushed during season, BIDDER may depute their cane checking staff in all cane weighing scales at factory gate.
4. Boiler Stack & Effluent treatment plant of sugar mill will be operated as per CPCB/HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/HSPCB Server. Any chemicals/fertilizers etc. required to run the ETP efficiently will be provided by the mill. If any violence of pollution norms occurred due to negligence of party or any fine/penalty imposed due to failure of any sampling or violation of CPCB/HSPCB guidelines then bidder will be fully responsible for the same and will be compensated by the bidder.
5. All log books of different stations should be maintained regularly & day wise print out of DCS System installed at different stations should be taken & kept on records shall be in bidder scope.
6. Day wise declaration of export to electricity should be provided by bidder to Mill as per guidelines of SLDC and online data transfer to SLDC server.
7. Shifting of sugar bags from drier house to any sugar godown situated in factory campus will be in scope of bidders(where belt conveyor is not available) for shifting sugar bags to the godown required diesel, tractor, trolly, driver etc. and required labour will be in the scope of bidder including loading and

unloading of sugar bags in trolley, except sold sugar loading which will be in the scope of Sugar Mill. If sugar bags will torn out during the shifting of sugar bags from drier house to sugar godown due to negligence or non-availability of required labour then the cost of torn-out sugar bags will be debited from the accounts/bills of the Party. Sugar bag stacking up to the height of 55 bag will be in the scope of bidder for stacking Sugar bag belt conveyor and sugar stackers will be provided by mill. Stacking should in countable form and bidder shall be liable for physical verification. If Stacking not found in countable form, then MILL will have the right to outsource the same to the third Party at the risk and cost of the PARTY.

8. Cleaning of Cane carrier pit up to fibrizer, collection of scattered cane at donga including cleaning of trolley and trucks after unloading of cane, Mills bottom juice drainage, Mill gallery, Bagasse belt conveyor pit, Boiler all floors top to ground, Ash handling including shifting and cleaning, All Houses floors, All Panel Rooms, Drier House, Factory premises inside and outside roads, scattered bagasse nearby boiler area and around baggcilo blower, cleaning of all belt conveyor bottom tray, Cable trenches, all internal and external drains of factory campus, all washrooms cleaning/sanitation will be in the scope of bidders.
9. Sanitation of Mill House, Boiling House, Boiler, TG, Drier House, all internal & external roads, nearby area of ETP, spray pond & Molasses Tanks, below bagasse conveyor belts, nearby area of boiler, Centrifugal station, drier house, magma, massecuite pits and surroundings. Scattered bagasse nearby area of boiler shall be collected on daily basis also in the bidder scope.
10. The bidder shall have responsible for the reprocessing of brown sugar, raw sugar & moist sugar available in its stock for reprocessing. The shifting of such sugar for reprocessing will be in the scope of bidder which may be available in sugar mill godowns i.e Dahar Plant.
11. Fire Fighting system maintenance and operation round the clock shall be in the bidder scope.
12. Tube cleaning of FFE's & Robert bodies shall be done within 10-12 days.
13. Tube cleaning of juice heaters shall be done within 4-5 days.
14. Tube cleaning of Pans shall be done within 30-35 days.

2.0 Manpower:

2.1 Mill will provide the existing available technical staff of Engineering and Manufacturing Department **(up to the level of Supervisory Staff except HODs, DY.HODs and Engineers/Chemists)** available with the Mills. The Existing available permanent + Seasonal manpower of the mills in crushing seasons 2026-27 & 2027-28 for the operation of the plant is annexed as Annexure-B & BB. To run the Plant in smooth manner rest of remaining required staff/manpower as per Haryana Co Op Sugar Mill Sanctioned Staff Strength for 5000 TCD Sugar Mill Plant along with 28 MW Cogen Plant/as per site requirement shall have to be arranged by prospective bidder to run the

plant successfully as per performance parameters. The Existing manpower of the mills (as per list annexed as Annexure-B & BB) will be utilized by the party at the relevant post looking at suitability by the Party and balance vacant manpower will be arranged by Party. Vacant post manpower is mandatory to be deployed by party. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure safe and efficient operation of plant. Party ensures to engage and depute at least one Technical Head of Mechanical Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff according to run the plant efficiently in all manners comprising four shifts i.e. A, B, C & R. The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season 2026-27 & 2027-28 and if any change/addition as and when takes place. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorated deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

- 2.2 The replacement of technical Staff/Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract, will be in the scope of Prospective Bidder/Party.
- 2.3 PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available then Party should provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, Panipat Coop Sugar Mills Ltd., Panipat.
- 2.4 The PARTY should provide a list of key technical experts, maintenance, and operating staff station wise indicating their qualification/experience to the MILL at the time of engaging at site.
- 2.5 Party should depute Sr. Technical Officers having well versed knowledge of operation and maintenance activities of the Sugar Mills to monitor the day routine activities of the Plant.
- 2.6 All persons engaged by the PARTY directly or indirectly shall be employees of the PARTY and it is obligatory on the part of the PARTY to cover all their employees under Workman Compensation Act 1923 and other applicable Labour Laws on time-to-time basis.
- 2.7 The PARTY will be responsible for deduction of EPF/ESI/Labour Cess and any other such liability from their employees and MILL will not be responsible for any monetary claim or payment to the PARTY employees or statutory authorities under the Employees Provident Fund, Family Pension Fund or under any other applicable statutory laws.
- 2.8 Group Insurance Policy of employees of the PARTY will be the responsibility of the PARTY and MILL will not be responsible for any claim / compensation which may be due to unforeseen and unfortunate incident/accident to be in future, whereas if any compensation/settlement amount to be required to

made under the Workmen Compensation Act, 1923 or any other statutory applicable labour laws.

- 2.9 In the event of any accident/casualty etc. of the employees of the PARTY, Party representative will do all efforts to hospitalize the said employees and other action required in this regards and MILL will not be responsible for any kind of unfortunate incident/accident as well as PARTY will ensure all safety measures for its employees.
- 2.10 The PARTY shall ensure that the age of deputed employees will not be less than 18 years in any case.
- 2.11 The PARTY shall withdraw/ replace those employees, who are not performing the work to the satisfaction of MILL or for their misconduct and for any other reason, as indicated by the MILL in writing to the PARTY within 48 hours of the said communication. In order to ensure quality repair/ maintenance of the plant, PARTY should not replace/ withdraw the maintenance staff without consulting to MILL Management.
- 2.12 In case due to shortage of manpower, any maintenance jobs are not likely to complete in well given time, MILL will have the right to outsource the same to the third Party at the risk and cost of the PARTY.
- 2.13 The PARTY shall duly comply with the provisions of the Apprentices Act 1961 and the rules made there under and the orders that may be issued from time to time under said Act and the said rules and on failure or neglect to do so the PARTY shall be subject to all liabilities and penalties provided by the said Act and Rules.
- 2.14 PARTY will also ensure 100% reprocessing of brown/ BSS and scrapping sugar of previous year including shifting of same from place of storage to curing house.
- 2.15 PARTY shall abide at all times by all existing enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or Authority and all labour Law (including rules), regulations, by laws that are applicable, The PARTY shall keep the MILL indemnified in case any action is taken against the MILL by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, the regulation or notifications including amendments, thereof, if the MILL is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or forenoon- observance of the provisions stipulated in the notifications/bylaws/Acts/Rules/Regulations including amendments if any, due to any act or omission on the part of the PARTY, the MILL shall have the right to deduct money due to the PARTY including invocation of Performance Security if due any. The MILL shall have right to recover from the PARTY any sum required or estimated to be required for making good the losses or damages suffered by the MILL. The employees of the PARTY or any person employed for any work indicated in this Agreement or indicated thereto, in no case shall be treated as the employees of the MILL at any point of time, in any manner whatsoever.
- 2.16 Sub-letting of repair, Operation and Maintenance shall not be allowed without the prior consent/approval of the MANAGING DIRECTOR, Panipat Sugar Mill except ash handling, sugar handling, bagasse handling, press mud handling & sanitation etc. WTP & ETP should be operated by the authorized agency with the

consultation of mill. Below mentioned manpower is essential to be provided during season for contractual jobs.

Sr.No.	Work Description	Manpower Category	Manpower Required				Remarks
			Shift A	Shift B	Shift C	Shift R	
1	Donga Cleaning	Un-skilled	3	3	3	2	1 No. Tractor required
2	Cane Carrier, MRC and Mill bed coolie cleaning contract	Un-skilled	6	6	6	3	
3	Bagasse Handling	Unskilled	2	2	2	1	3 Nos Tractors with diesel required round the clock.
4	Ash Handling including cleaning of scattered ash at boilers	Unskilled	4	4	4	2	02 Nos tractors with trolley including diesel required round the clock for ash shifting with in factory premises.
5	Tube Cleaning of Quad Bodies and juice heaters	Unskilled	5				
6	Jet Cleaning of FFE Tubes.	Unskilled	3				Jet cleaning machine required round the clock.
7	Lime Preparation and Operation	Unskilled	2	2	2	1	Including Lime unloading
8	Chemical/pesticide/fertilizer unloading and shifting to required stations.		As per requirement				Lum sum
9	Sugar Handling	Unskilled	As per requirement				
10	ETP Operation	skilled	1	1	1	1	
		unskilled	1	1	1	1	

11	Plant Sanitation	unskilled	8	8	8	4	Mill, Boiling, Boiler & Turbine House including control rooms, All drains only inside the factory.
12	Press Mud Shifting	unskilled	1	1	1	1	03 Nos tractors with trolley including diesel required round the clock for press mud shifting with in factory premises.

2.17 Fire- Fighting system should be maintained and operated round the clock by bidder for the safety of plant.

2.18 Loss of any vehicle of farmer or contractor due to the faulty functioning of the bidder manpower the same will be borne by bidder.

3.0 Accommodation

3.1 Accommodation for staff of the PARTY will be arranged by Party.

3.2 Mills available accommodations will be provided to Mills Permanent Employees after completion of the pending work.

3.3 All other arrangements for food, medical, transportation etc. will be made by the PARTY for their staff.

4.0 Supply of Sugarcane:-

4.1 The arrangement for the procurement and supply of sugar cane shall be done by the MILL. The supply of sugarcane as per indent of the PARTY upto the Cane Carrier will be the responsibility of the MILL. The indent will be issued by the PARTY in advance.

4.2 The arrangement for the procurement and supply of bagasse for running Co-generation plant in off-season shall be done by the MILL. The supply of bagasse as per indent of the PARTY up to the Bagasse Yard will be the responsibility of the MILL. The indent will be issued by the PARTY in advance.

THE PANIPAT COOP: SUGAR MILLS LTD., PANIPAT

List of Engineering Manpower required from contractor (As per New Staff Strength)

Annexure- A

NAME OF DEPARTMENT	Sr. No.	NAME OF POST	Nos. of Post	Sr. No.	Name of Employees (S/Sh.)	Qualification and Experience	Date of Retirem ent	Remarks
			P/S	1	2	3	4	5
	1	Chief Engineer	1(P)	1	Raj Kumar		30-11-2029	
	2	Deputy Chief Engineer	1(P)	1	Ravi Maan		30-05-2046	
	3	Boiler Operation Engineer.	1(P)	1	Vacant	Academic: Degree in Mechanical Engineering with Boiler Operation Engineering certificate (55% marks) Experience: 2 yrs. exp. on Pressure Boilers of minimum 32 kg/Sq. CM. Computer course upto 'O' level.		
	4	Asstt. Engineer (Mech.)	4(P)	1	Kashi Nath Sahu		30-09-2026	
				2	Vacant	Academic :Degree in Mechanical Engineering (55% marks) Experience: At least 1 yr apprenticeship in Sugar Industry or completion of the Sugar Engineering Course from the NSI, Kanpur. Computer course upto 'O' level.		
				3	Vacant			
				4	Vacant			

	5	Asstt. Engineer (Inst.)	1(P)	1	Vacant			
	6	Asstt. Engineer (Civil)	1(P)	1	Vacant			
	7	Draftsman	1(P)	1	Vacant	Academic: ITI Certificate in Draftsmanship Mechanical. Experience: At least one year as Apprentice in sugar mills		
	8	Welder	3(P)	1	Amarjit		31-03-2029	
				2	Ravi Kumar		30-04-2048	
				3	Vacant	Academic/Experience i) ITI certificate in Welder Trade with 3 yrs. as Welders. ii) ITI certificate in Welder Trade with 3 yrs. as High Pressure Welder.		
	9	Inst. Machanic	4(P)	1	Vacant	Academic: ITI in Instrument/Electronic Trade. Experience: 3 yrs. of handling instruments & Auto Control System in Sugar Mills/ Power House/Large Chemical or Process Plant.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	10	Inst.Attd.	4(P)	1	Vacant	Academic: ITI in Instrument/Electronic Trade. Experience: 3 yrs. of handling instruments & Auto Control System in Sugar Mills/ Power House/Large Chemical or Process Plant.		
				2	Vacant			
				3	Vacant			
				4	Vacant			

	11	Mason	1(P)	1	Modu Ram		30-5-2029	
	12	Sanitary Fitter	1(P)	1	Vacant	Academic: ITI certificate in Plumbing or Fitter trade. Experience: 2 yrs as Sanitary Fitter/Plumber		
	13	Sanitary Fitter Helper	1 (P)	1	Vacant	ITI Certificate in plumbing		
	14	Head Khalasi	1(P)	1	Vacant	Academic: Middle pass. Experience: Should have worked as Khalasi for 8 yrs. in sugar mills.		
	15	Khalasi	11(P)	1	Vacant	Academic: Middle pass. Experience: Should have worked in similar capacity in sugar industry for 2 yrs.		
				2	Vacant			
				3	Naresh Kumar		30-5-2039	
				4	Rajender Kumar		31-01-2028	Habitual Absentee
				5	Vacant			
				6	Vacant			
				7	Vacant			
				8	Vacant			
				9	Ravinder Kumar		30-11-2034	
				10	Vacant			
				11	Vacant			
	16	Peon to C.E.	1(P)	1	Vacant			
Workshop	1	Workshop Foreman	1(P)	1	Vacant	Academic: ITI certificate in Turner Machinist trade. Experience: 6 yrs. of Workshop in Sugar mill as Turner/Machinist. Preference will be given to diploma in Mechanical Engineering with 2 years exp.		
	2	Workshop Fitter	1 (P)	1	Vacant	Academic: ITI Certificate in Fitter Trade Experience : 2 years exp. in		

						similar capacity in sugar mills or 8 years exp. as Fitter-II in Sugar Mills.		
	3	Turner	2(P)	1	Rajbir		29-2-2028	
				2	Rakesh Kumar		31-8-2037	
	4	Black Smith	1(P)	1	Vacant	<i>Academic: ITI certificate in Black Smith. Experience: 2 yrs. in similar capacity in sugar mills.</i>		
	5	Hammer Man	1(P)	1	Krishan		30-6-2032	
	6	Pattern Maker/ Carpenter	1(P)	1	Vacant	Academic: ITI certificate in pattern maker/ Carpentry trade Experience: 2 yrs. as Pattern Maker 1 or 2 yrs. as Carpenter in a sugar mills.		
	7	Machinist	1(P)	1	Harvinder Singh		30-04-2038	
	8	Mill House Helper	4 (P)	1	Vacant			
				2	Vacant	ITI in Fitter Trade.		
				3	Vacant			
				4	Vacant			
		Boiling House Fitter Helper	4 (P)	5	Vacant	ITI in Fitter Trade.		
				6	Vacant			
				7	Vacant			
-				8	Vacant			
-		Centrifugal Helper	5 (P)	9	Vacant	ITI in Fitter Trade.		
-				10	Satpal		31-03-2027	
-				11	Vacant	ITI in Fitter Trade.		
-				12	Vacant			
-				13	Vacant			
		Electrical Helper	4 (P)	14	Vacant	Should be ITI in Electrical trade.		
				15	Vacant			

				16	Vacant			
				17	Vacant			
Electrical	1	Asstt. Engineer	1(P)	1	Baldeep Singh Rathi		30-11-2029	
Deptt.		(Electrical/ Electronics)						
	2	Foreman (Electrical)	1(P)	1	Vacant	Academic : Matric 2nd Division with ITI in Electrical. Experience: 10 years as Electrician in Sugar Mills		
	3	Electrician	4 (P)	1	Sanjay Malik	Academic : ITI in Electrician Trade. Experience :2 yrs. as Electrician or 8 years in Electrical Deptt. of the Sugar Mills.	31-08-2033	LT experience so HT Experience manpower required from contractor additionally
				2	Biresh Kumar Tyagi		31-03-2031	LT experience so HT Experience manpower required from contractor additionally
				3	Vacant			
				4	Vacant			
	4	Wire Man	4(P)	1	Rajender	Academic : ITI certificate in Electrical/ Wireman trade Experience: 2 yrs as Wireman or 6 yrs. as Wireman Helper in Sugar Mills		
				2	Vacant			
				3	Vacant			
				4	Vacant			

	5	Switch Board Attendant	1 (P)	1	Vacant	Academic : ITI certificate in /Elect/ Wireman Trade. Experience: 2 yrs. in Electrical Deptt. of a Power Plant above 1.5 MW capacity in sugar mills..		
	6	Turbine Mechanic	1(P)	1	Vacant	Academic :Diploma in Mech. Engg. Experience: 3 years as Turbine Mechanic of minimum 10 MW Power/Cogen Plant. OR Academic: Matric with ITI in Fitter Trade of Stream Turbine -cum - Auxiliary Plant of Diesel Engine Trade. Experience: 5 yrs. as Turbine Mechanic of minimum 10 MW power Cogen Plant.		
	7	Power House Turbine Attdt.	1(P)	1	Subhash Chander Pandey		30-06-2030	
	1	Mill House Foreman	1(P)	1	Vacant	Academic: ITI in Fitter Trade Experience : 6 yrs. in Sugar Industry as Head Fitter of Mills or 2 yrs. as Mill House Foreman in Sugar Mills. Preference will be given to Diploma in Mechanical Engineering.		
	3	Head Fitter/Fitter	4 (P)	1	Ramesh Parsad		30-05-2033	
				2	Vacant	Academic:		

				3	Vacant	Matric with ITI in Fitter trade. Experience: 8 yrs. exp. as Fitter –I in sugar mills		
				4	Vacant			
	4	Cane Unloader Operator	1(P)	1	Vacant	Academic: Matric Experience :3 yrs. in operation of 3 motion Cane Un loader in a sugar mills. ITI (Electrical or Fitter trade) will be preferred.		
Boiler House	1	B.Chemist/D M Plant Att.	1(P)	1	Vacant	B.SC Chemistry and having one year experience on high pressure boiler.		
	2	Boiler Attendant	(4)P	1	Gulshan Kumar	Academic: Matric (2nd Division) pass holding 1st class Boiler Competency certificate as laid down in the Indian Boiler Act Experience: 5 yrs. as Boiler Attd. in Operation of high pressure Boilers.	28-02-2033	Available but having Low pressure boiler experience so contractor arrange additional high pressure B.Attd.
				2	Anil Kumar		30-10-2029	Available but having Low pressure boiler experience so contractor arrange additional high pressure B.Attd.
-				3	Vacant			
				4	Vacant			

	3	Fire Man	1(P)	1	Lalit Kumar		28-02-2027	Available but having Low pressure boiler experience so contractor arrange additional high pressure B.Attd.
	5	Boiler Att. Helper	4 (P)	1	Vacant	Academic: Matric (2nd Division) pass holding Ist class Boiler Competency certificate as laid down in the Indian Boiler Act Experience: 1Year Apprentice work in Sugar Mill.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
Boiling House	1	Boiling House Foreman	1(P)	1	Vacant	Academic I.T.I.in Fitter trade. Experience: 6 yrs in Sugar Mill as Head Fitter in Boiling and Centrifugal House or two yrs. as Boiling House Foreman. Preference will be given to Diploma in Mechanical Engineering.		
-	2	CF Mechanic	1(P)	1	Vacant	Academic: Matric with ITI Certificate in Fitter trade Experience: 8 years as Centrifugal Fitter in sugar mills		
-	3	Boiling HouseHead Fitter/ Fitter	4 (P)	1	Mohinder Singh		31-01-2028	

-				2	Vacant	Academic: Matric with ITI in Fitter trade. Experience: 8 yrs. exp. as Fitter –I in sugar mills		
-				3	Vacant			
-				4	Vacant			
-	4	Centrifugal Fitter	4 (P)	1	Vacant			
-				2	Vacant	Academic: ITI Certificate in Fitter Trade Experience : 2 years exp. in similar capacity in sugar mills or 8 years exp. as Fitter-II in Sugar Mills.		
-				3	Vacant			
-				4	Vacant			
-	3	Mason Coolie	1(P)	1	Balwan Singh			Diminishing cadre coolie will work as mason coolie
		Co-Gen.						
		Dy. Chief Engineer	1(P)	1	Vacant	Academic: Degree in Mechanical/ Electrical/ Instrumentation Engineering (55% marks) Experience: 6 years experience as Asstt. Engineer in Sugar Industry. Computer course upto 'O' level .		
		Electrical Engineer	1(P)	1	Rohit Kumar		30-10-2043	
		Turbine Engineer	1(P)	1	Vacant	Academic: B.E.(mech. Engg.) Exp. 2year as a Turbine Engg. In power/Cogen plant minimum 10MW		
		DCS Operator	4(P)	1	Vacant	Diploma in Mech, Electrical, Instrument, Exp- 1 Year of DCS Operation		
				2	Vacant			
				3	Vacant			
				4	Vacant			

		Electrician (Co-gen.)	1(P)	1	Vacant	Academic : ITI in Electrician Trade. Experience :2 yrs. as Electrician or 8 years in Electrical Deptt. of the Sugar Mills.			
		Permanent Manpower Required from contractor against sanctioned vacant post during off-season.				84+7			
					Sanctioned	Net Available for O&M	Net Required for O&M		
		Total Permanent Sanctioned Post			110	26	84		

THE PANIPAT COOP: SUGAR MILLS LTD., PANIPAT

List of Manufacturing Department as on 17-08-2026 (As per New Staff Strength)

ANNEXURE-AA

Sr. No.	NAME OF POST	Nos. of Post	Sr. No.	Name of Employees (S/Sh.)	Qualification and Experience	Date of Retirement	Remarks
		P/S	1	2	3	4	5
1	CHIEF CHEMIST	1(P)	1	B.S Hooda (On deputation)			
2	DY. CHIEF CHEMIST	1(P)	1	Vacant	Academic : B.Sc. Degree (IInd Division) with Physics Chemistry & Maths plus ANSI IInd Division (Sugar Technology) or any equivalent qualification or Degree in Chemical Engg. Experience : 5 years as Mfg. Chemist. Computer course upto 'O' level.		
3	MANUFACTURING	4(P)	1	Amrish		31-12-2032	
	CHEMIST		2	Satendra Kumar		28-02-2027	
			3	Abhishek Tomar		31-07-2037	
			4	Vacant	Academic: B.Sc. (2nd Division) Degree plus ANSI/VSI. with minimum 60% marks (Sugar Technology). Experience: One year as Apprentice Chemist. Computer course upto 'O' level.		
4	LAB INCHARGE	1(P)	1	Vacant	Academic: B.Sc. degree with Physics, Chemistry & Maths with three months diploma in Computer Applications. Experience : 2 yrs. as Lab Incharge in a Sugar Mill or 8 yrs. as Lab Chemist in a Sugar Mill .Preference will be given to candidate possessing diploma in		Mill may demand another equivalent manpower against this sanctioned post as this manpower will be arranged by mill itself also.

					Sugar Technology from NSI/VSI. Computer course upto 'O' level.		
5	PEON TO CHIEF CHEMIST	1(P)	1	Vacant	Middle with knowledge of catering		Mill may demand another manpower as per suitability.
6	HEAD PAN MAN	1(P)	1	Vacant	Academic: Matric 2nd division in Science with Diploma in Sugar Boiling Course from NSI., Kanpur or VSI Pune. Experience: 10 yrs. practical experience as Pan Incharge in a sugar mills.		
				Sanctioned	Net Available for O&M	Net Required for O&M	
	Total Permanent Sanctioned Post			9	4	5	

THE PANIPAT COOP: SUGAR MILLS LTD., PANIPAT

List of Engineering Manopower required from contractor (As per New Staff Strength)

ANNEXURE-B

NAME OF DEPARTMENT	Sr. No.	NAME OF POST	Nos. of Post	Sr. No.	Name of Employees (S/Sh.)	Qualification and Experience	Date of Retirement	Remarks
			P/S	1	2	3	4	5
	1	Chief Engineer	1(P)	1	Raj Kumar		30-11-2029	
	2	Deputy Chief Engineer	1(P)	1	Ravi Maan		30-05-2046	
	3	Boiler Operation Engineer.	1(P)	1	Vacant	Academic: Degree in Mechanical Engineering with Boiler Operation Engineering certificate (55% marks) Experience: 2 yrs.exp. on Pressure Boilers of minimum 32 kg/Sq. CM. Computer course upto 'O' level.		
	4	Asstt. Engineer (Mech.)	4(P)	1	Kashi Nath Sahu		30-09-2026	
				2	Vacant	Academic :Degree in Mechanical Engineering (55% marks) Experience: At least 1 yr apprenticeship in Sugar Industry or completion of the Sugar Engineering Course from the NSI, Kanpur. Computer course upto 'O' level.		
				3	Vacant			
				4	Vacant			
	5	Asstt. Engineer (Inst.)	1(P)	1	Vacant			
	6	Asstt. Engineer (Civil)	1(P)	1	Vacant			
	7	Draftsman	1(P)	1	Vacant	Academic: ITI Certificate in Draftsmanship Mechanical.		

						Experience: At least one year as Apprentice in sugar mills		
	8	Welder	3(P)	1	Amarjit		31-03-2029	
				2	Ravi Kumar		30-04-2048	
				3	Vacant	Academic/Experience i) ITI certificate in Welder Trade with 3 yrs. as Welders. ii) ITI certificate in Welder Trade with 3 yrs. as High Pressure Welder.		
		Welder (Seasonal)	2(S)	1	Vacant			
				2	Vacant			
	9	Inst. Machanic	4(P)	1	Vacant	Academic: ITI in Instrument/Electronic Trade. Experience: 3 yrs. of handling instruments & Auto Control System in Sugar Mills/ Power House/Large Chemical or Process Plant.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	10	Inst. Attd.	4(P)	1	Vacant	Academic: ITI in Instrument/Electronic Trade. Experience: 3 yrs. of handling instruments & Auto Control System in Sugar Mills/ Power House/Large Chemical or Process Plant.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	11	Mason	1(P)	1	Modu Ram		30-5-2029	
	12	Sanitary Fitter	1(P)	1	Vacant	Academic: ITI certificate in Plumbing or Fitter trade. Experience: 2 yrs as Sanitary Fitter/Plumber		
	13	Sanitary Fitter Helper	1 (P)	1	Vacant	ITI Certificate in plumbing		
	14	Head Khalasi	1(P)	1	Vacant	Academic: Middle pass. Experience: Should have worked as Khalasi for 8 yrs. in sugar mills.		
	15	Khalasi	11(P)	1	Vacant	Academic: Middle pass. Experience: Should have worked in similar		
				2	Vacant			
				3	Naresh Kumar		30-5-2039	

				4	Rajender Kumar	capacity in sugar industry for 2 yrs.	31-01-2028	Habitual Absentee
				5	Vacant			
				6	Vacant			
				7	Vacant			
				8	Vacant			
				9	Ravinder Kumar		30-11-2034	
				10	Vacant			
				11	Vacant			
	16	Peon to C.E.	1(P)	1	Vacant			
Workshop	1	Workshop Foreman	1(P)	1	Vacant	Academic: ITI certificate in Turner Machinist trade. Experience: 6 yrs. of Workshop in Sugar mill as Turner/Machinist. Preference will be given to diploma in Mechanical Engineering with 2 years exp.		
	2	Workshop Fitter	1 (P)	1	Vacant	Academic: ITI Certificate in Fitter Trade Experience : 2 years exp. in similar capacity in sugar mills or 8 years exp. as Fitter-II in Sugar Mills.		
	3	Turner	2(P)	1	Rajbir		29-2-2028	
				2	Rakesh Kumar		31-8-2037	
	4	Black Smith	1(P)	1	Vacant	Academic: ITI certificate in Black Smith. Experience: 2 yrs. in similar capacity in sugar mills.		
	5	Hammer Man	1(P)	1	Krishan		30-6-2032	
	6	Pattern Maker/ Carpenter	1(P)	1	Vacant	Academic: ITI certificate in pattern maker/ Carpentry trade Experience: 2 yrs. as Pattern Maker I or 2 yrs. as Carpenter in a sugar mills.		
	7	Machinist	1(P)	1	Harvinder Singh		30-04-2038	
	8	Mill	4 (P)	1	Vacant			

		House Helper						
				2	Vacant	ITI in Fitter Trade.		
				3	Vacant			
				4	Vacant			
		Boiling House Fitter Helper	4 (P)	5	Vacant	ITI in Fitter Trade.		
				6	Vacant			
				7	Vacant			
-				8	Vacant			
-		Centrifugal Helper	5 (P)	9	Vacant	ITI in Fitter Trade.		
-				10	Satpal		31-03-2027	
-				11	Vacant	ITI in Fitter Trade.		
-				12	Vacant			
-				13	Vacant			
		Electric al Helper	4 (P)	14	Vacant	Should be ITI in Electrical trade.		
				15	Vacant			
				16	Vacant			
				17	Vacant			
	4	D.C.S.O perator	3 (S)	1	Vacant	Academic: Diploma (Mechanical, Electrical and Instrumentation) Experience: 1 yrs.		will work as Turbine DCS Operator
				2	Vacant			will work as Turbine DCS Operator
				3	Vacant			will work as Turbine DCS Operator
	5	Motor Pump Att./B.C . Att.	7(s)	1	Vacant	Academic: ITI in Fitter trade. Experience: One year Apprentice work in Sugar Mills		
				2	Vacant			
				3	Vacant			
				4	Vacant			
				5	Vacant			
				6	Vacant			
				7	Vacant			

Electrical	1	Asstt. Engineer	1(P)	1	Baldeep Singh Rathi		30-11-2029	
Deptt.		(Electrical/ Electronics)						
	2	Foreman (Electrical)	1(P)	1	Vacant	Academic : Matric 2nd Division with ITI in Electrical. Experience: 10 years as Electrician in Sugar Mills		
	3	Electrician	4 (P)	1	Sanjay Malik	Academic : ITI in Electrician Trade. Experience :2 yrs. as Electrician or 8 years in Electrical Deptt. of the Sugar Mills.	31-08-2033	LT experience so HT Experience manpower required from contractor additionally
				2	Biresh Kumar Tyagi		31-03-2031	LT experience so HT Experience manpower required from contractor additionally
				3	Vacant			
				4	Vacant			
	4	Wire Man	4(P)	1	Rajender	Academic : ITI certificate in Electrical/ Wireman trade Experience: 2 yrs as Wireman or 6 yrs. as Wireman Helper in Sugar Mills		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	5	Switch Board Attendant	1 (P)	1	Vacant	Academic : ITI certificate in /Elect/ Wireman Trade. Experience: 2 yrs. in Electrical Deptt. of a Power Plant above 1.5 MW capacity in sugar mills..		
		Switch Board	3 (S)	1	Vacant			

		Attendant						
				2	Vacant			
				3	Vacant			
	6	Turbine Mechanic	1(P)	1	Vacant	Academic :Diploma in Mech. Engg. Experience: 3 years as Turbine Mechanic of minimum 10 MW Power/Cogen Plant. OR Academic: Matric with ITI in Fitter Trade of Stream Turbine -cum - Auxiliary Plant of Diesel Engine Trade. Experience: 5 yrs. as Turbine Mechanic of minimum 10 MW power Cogen Plant.		
	7	Power House Turbine Attdt.	1(P)	1	Subhash Chander Pandey		30-06-2030	
			3(S)	1	Vacant	Academic ITI in Auto Mobile Mechanic/ Diesel Engine. Experience: 2 yrs. operating High pressure steam Turbine.		
				2	Vacant			
				3	Vacant			
Cane	1	Mill House Foreman	1(P)	1	Vacant	Academic: ITI in Fitter Trade Experience : 6 yrs. in Sugar Industry as Head Fitter of Mills or 2 yrs. as Mill House Foreman in Sugar Mills. Preference will be given to Diploma in Mechanical Engineering.		
Carrier &								
Mill House	2	Mill Turbine Attendant	11(S)	1	Krishan Kumar		28-02-2030	Will work as Power Turbine Attd
				2	Vacant	Qualification of DCS Operator should be considered		Mill DCS Operator required against this post

				3	Vacant		Mill DCS Operator required against this post
				4	Vacant		Mill DCS Operator required against this post
				5	Vacant		Mill DCS Operator required against this post
				6	Vacant		Power Turbine & PRDS Field operator required against this post.
				7	Vacant		Power Turbine & PRDS Field operator required against this post.
				8	Vacant		Power Turbine & PRDS Field operator required against this post.
				9	Vacant		Power Turbine & PRDS Field operator required against this post.
				10	Vacant		Power Turbine & PRDS Field operator required against this post.

				11	Vacant			Power Turbine & PRDS Field operator required against this post.
	3	Head Fitter/Fitter	4 (P)	1	Ramesh Parsad		30-05-2033	
				2	Vacant	Academic: Matric with ITI in Fitter trade. Experience: 8 yrs. exp. as Fitter –I in sugar mills		
				3	Vacant			
				4	Vacant			
	4	Cane Unloader Operator	1(P)	1	Vacant	Academic: Matric Experience :3 yrs. in operation of 3 motion Cane Un loader in a sugar mills. ITI (Electrical or Fitter trade) will be preferred.		
			10(S)	1	Vacant	Academic: Matric Experience :3 yrs. in operation of 3 motion Cane Un loader in a sugar mills. ITI (Electrical or Fitter trade) will be preferred.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
				5	Vacant			
				6	Vacant			
				7	Vacant			
				8	Vacant			
				9	Vacant			
				10	Vacant			
	5	Cane Cutting Opt./Attendant	4(S)	1	Vacant	Academic: Matric, ITI Certificate in any Trade. Experience: 1 year Apprentice work in Sugar Mill.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	6	Oilman/Boiling/Mill House	7 (S)	1	Kesho		31-01-2033	
				2	Suraj		31-08-2032	
				3	Vacant	Academic: ITI in Fitter trade. Experience: One year Apprentice work in Sugar Mills.		
				4	Vacant			
				5	Vacant			

				6	Kiran Pal		31-07-2032	Having Experience of wireman
				7	Balwan		30-06-2033	
Boiler	1	B.Chemist/DM Plant Att.	1(P)	1	Vacant	B.SC Chemistry and having one year experience on high pressure boiler.		
House		B.Chemist/DM Plant Att.	3(S)	1	Vacant			
				2	Vacant			
				3	Vacant			
	2	Boiler Attendant	(4)P	1	Gulshan Kumar	Academic: Matric (2nd Division) pass holding Ist class Boiler Competency certificate as laid down in the Indian Boiler Act Experience: 5 yrs. as Boiler Attd. in Operation of high pressure Boilers.	28-02-2033	Available but having Low pressure boiler experience so contractor arrange additional high pressure B.Attd.
				2	Anil Kumar		30-10-2029	Available but having Low pressure boiler experience so contractor arrange additional high pressure B.Attd.
-				3	Vacant			
				4	Vacant			
	3	Fire Man	1(P)	1	Lalit Kumar		28-02-2027	Available but having Low pressure boiler experience so contractor arrange additional

								high pressure B.Attd.
	4	Fire Man	3(S)	1	Vacant	Academic: Matric and 2nd Class Boiler Competency exam. passed. Experience: 2 yrs. as Fireman at high pressure boiler in sugar mill or 5 yrs. as Fireman.		
				2	Vacant			
				3	Vacant			
	5	Boiler Att. Helper	4 (P)	1	Vacant	Academic: Matric (2nd Division) pass holding 1st class Boiler Competency certificate as laid down in the Indian Boiler Act Experience: 1Year Apprentice work in Sugar Mill.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	6	Feed Pump Attendant	4 (S)	1	Vacant	Academic: ITI in Fitter trade. Experience : At least 3 yrs. on Boilers/Feed Pump in sugar mills on 21kg/cm2. Preference will be given to candidates who have cleared 2nd class Boiler Attendant course.		
				2	Vacant			
				3	Vacant			
				4	Vacant			
	7	Water Man	7(S)	1	Vacant	Academic: Matric and 2nd Class Boiler Competency exam. passed. Experience: 2 yrs. as Waterman on 21 kg /cm2 pressure boiler of 40 ton . capacity per hour or 8 yrs. as Feed Pump Attendant.		
-				2	Vacant			
-				3	Vacant			
-				4	Vacant			
-				5	Vacant			
-				6	Vacant			
-				7	Vacant			
Boiling House	1	Boiling House Foreman	1(P)	1	Vacant	Academic I.T.I.in Fitter trade. Experience: 6 yrs in Sugar Mill as Head Fitter in Boiling and Centrifugal House or two yrs. as Boiling House Foreman. Preference will be given to Diploma in		

						Mechanical Engineering.		
-	2	CF Mechanic	1(P)	1	Vacant	Academic: Matric with ITI Certificate in Fitter trade Experience: 8 years as Centrifugal Fitter in sugar mills		
-	3	Boiling House Head Fitter/ Fitter	4 (P)	1	Mohinder Singh		31-01-2028	
-				2	Vacant	Academic: Matric with ITI in Fitter trade. Experience: 8 yrs. exp. as Fitter –I in sugar mills		
-				3	Vacant			
-				4	Vacant			
-	4	Centrifugal Fitter	4 (P)	1	Vacant	Academic: ITI Certificate in Fitter Trade Experience : 2 years exp. in similar capacity in sugar mills or 8 years exp. as Fitter-II in Sugar Mills.		
-				2	Vacant			
-				3	Vacant			
-				4	Vacant			
-	5	Motor Pump Att.	11 (S)	1	Chhabila		31-01-2033	Diminishing cadre coolie will work as M.Attd.
-				2	Veer Singh		30-06-2037	Diminishing cadre coolie will work as M.Attd.
-				3	Rikhi Ram		31-07-2048	Diminishing cadre coolie will work as M.Attd.
-				4	Deepak			Diminishing cadre coolie will work as M.Attd.
-				5	Vacant			
-				6	Vacant			
-				7	Vacant			
-				8	Vacant			
-				9	Vacant			

-				10	Vacant			
-				11	Vacant			
-	3	Mason Coolie	1(P)	1	Balwan Singh			Diminishin g cadre coolie will work as mason coolie
		Co-Gen.						
		Dy. Chief Enginee r	1(P)	1	Vacant	Academic: Degree in Mechanical/ Electrical/ Instrumentation Engineering (55% marks) Experience: 6 years experience as Asstt. Engineer in Sugar Industry. Computer course upto 'O' level .		
		Electric al Enginge er	1(P)	1	Rohit Kumar	Academic: Degree in Electrical Engineering (55% marks) Experience: At least 1 yr. in maintenance and running of power station/One year apprentice in Sugar Industry. Computer course upto 'O' level.	30-10-2043	
		Turbine Enginee r	1(P)	1	Vacant	Academic: B.E.(mech. Engg.) Exp. 2year as a Turbine Engg. In power/Cogen plant minimum 10MW		
		DCS Operat or	4(P)	1	Vacant	Diploma in Mech, Electrical, Instrument, Exp- 1 Year of DCS Operation		
				2	Vacant			
				3	Vacant			
				4	Vacant			
		Cooling Water Pump Att.	4(S)	1	Vacant	Academic: ITI in Fitter trade. Experience : At least 3 yrs. on Boilers/Feed Pump in sugar mills on 21kg/cm2.		
				2	Vacant			
				3	Vacant			

				4	Vacant	Preference will be given to candidates who have cleared 2nd class Boiler Attendant course.			
		Electrician (Co-gen.)	1(P)	1	Vacant	Academic : ITI in Electrician Trade. Experience :2 yrs. as Electrician or 8 years in Electrical Deptt. of the Sugar Mills.			
		Permanent Manpower Required from contractor against sanctioned vacant post during off-season and season.				84+7			
		Seasonal Manpower Required from contractor against sanctioned vacant post during season.				73			
					Sanctioned	Net Available for O&M	Net Required for O&M		
		Total Permanent Sanctioned Post			110	25	84+7		
		Total Seasonal Sanctioned Post			82	9	73		
		TOTAL			192	34	157 +7		

THE PANIPAT COOP: SUGAR MILLS LTD., PANIPAT							
List of Manufacturing Department as on 17-08-2026 (As per New Staff Strength)						ANNEXURE-BB	
Sr.	NAME OF POST	Nos.	Sr.	Name of Employees	Qualification and Experience	Date of Retirement	Remarks
No .		of	No .	(S/Sh.)			
		Post					
		P/S	1	2	3	4	5
1	CHIEF CHEMIST	1(P)	1	B.S Hooda (On deputation)			
2	DY. CHIEF CHEMIST	1(P)	1	Vacant	Academic : B.Sc. Degree (IInd Division) with Physics Chemistry & Maths plus ANSI IInd Division (Sugar Technology) or any equivalent qualification or Degree in Chemical Engg. Experience : 5 years as Mfg. Chemist. Computer course upto 'O' level.		
3	MANUFACTURING	4(P)	1	Amrish		31-12-2032	
	CHEMIST		2	Satendra Kumar		28-02-2027	
			3	Abhishek Tomar		31-07-2037	
			4	Vacant	Academic: B.Sc. (2nd Division) Degree plus ANSI/VSI. with minimum 60% marks (Sugar Technology). Experience: One year as Apprentice Chemist. Computer course upto 'O' level.		
4	LAB INCHARGE	1(P)	1	Vacant	Academic: B.Sc. degree with Physics, Chemistry & Maths with three months diploma in Computer Applications. Experience : 2 yrs. as Lab Incharge in a Sugar Mill or 8 yrs. as Lab Chemist in a Sugar Mill .Preference will be given to candidate possessing diploma in Sugar Technology from NSI/VSI. Computer course upto 'O' level.		Mill may demand another equivalent manpower against this sanctioned post as this manpower will be arranged by mill itself also.

5	LAB CHEMIST	4(S)	1	Vacant	Academic : B.Sc. Degree with physics Chemistry & Maths IIInd Division. Computer course upto 'O' level.		Mill may demand another manpower against this sanctioned staff as this manpower will be arranged by mill itself also.
			2	Kuldeep Singh		31-12-2030	
			3	Vacant			
			4	Vacant			
6	SUGAR HOUSE CLERK	4(S)	1	Vacant	Academic : Graduate preferably B.Com with 'O' level computer course.		
			2	Vacant			
			3	Vacant			
			4	Vacant			
7	SAMPLE BOY-CUM-LAB BOY						
	SAMPLE BOY	3 (S)	1	Bijender Kumar		31-05-2045	
			2	Sonu Kumar (On deputation)			
			3	Suresh Dhanda (On deputation)			
			4	Krishan Kumar		31-10-2036	
	LAB BOY	4(S)	5	Vacant			
			6	Pardeep Kumar		30-09-2043	
			7	Rajender Singh		30-09-2030	
			8	Amawas Prasad		30-05-2035	
8	P.H.RECORDER/Analyst	4(S)	1	Vacant	Academic : 10+2 in Science Experience: 2 yrs. apprentice work in a sugar mills or similar position in any industry.		
			2	Vacant			
			3	Vacant			
			4	Vacant			
9	PEON TO CHIEF CHEMIST	1(P)	1	Vacant	Middle with knowledge of catering		Mill may demand another manpower as per

							suitability.
10	CENTRIFUGAL	4(S)	1	Vacant	Academic: Matric with ITI Certificate in Fitter trade Experience: 8 years as Centrifugal Fitter in sugar mills		
	MATE		2	Vacant			
			3	Vacant			
			4	Vacant			
11	EVAPORATOR ATT.	4(S)	1	Satya Bhushan		30-06-2032	
			2	Adesh Kumar		31-07-2033	
			3	Vacant			
			4	Vacant	Academic: Matriculate(Science) with ITI pass and Experience: One season apprentice at Evaporator Station		
12	JUICE MACER. RECORDER		1	Vacant	Academic: Matriculate Ist. Division or 10+2 2nd Division. Experience: One year apprentice work.		
	JUICE & SYRUP ATT.	4(S)	2	Bhola		31-08-2030	Will work as Pan coolie.
			3	Avadh Bihari		31-07-2044	
			4	Vacant	Academic: Matriculate Ist. Division or 10+2 2nd Division. Experience: One year apprentice work.		
13	JUICE HEATER ATT.	3(S)	1	Sandeep Kumar		30-06-2046	
			2	Vacant	Academic: ITI Experience: 5 yrs. as Attendant on same station		
			3	Vacant			
14	CLARIFIER ATTENDANT	4(S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station.		
			2	Vacant			
			3	Vacant			
			4	Vacant			
15	VACUMME FILTER ATT.	3(S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station		
			2	Vacant			
			3	Vacant			
16	Deficator ATT.	4(S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station		
			2	Vacant			
			3	Vacant			
			4	Vacant			
17	Lime Attendant	3 (S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station		

			2	Vacant			
			3	Vacant			
18	CENTRIFUGAL OPERATOR	11(S)	1	Sansar Singh		31-05-2033	
			2	Ram Niwas		31-10-2040	
			3	Anil Kumar		30-06-2044	
			4	Om Veer		30-04-2028	
			5	Vacant	Academic: ITI Experience: 5 yrs. as Attendant on same station.		
			6	Vacant			
			7	Vacant			
			8	Vacant			
			9	Vacant			
			10	Vacant			
			11	Vacant			
19	HEAD PAN MAN	1(P)	1	Vacant	Academic: Matric 2nd division in Science with Diploma in Sugar Boiling Course from NSI., Kanpur or VSI Pune. Experience: 10 yrs. practical experience as Pan Incharge in a sugar mills.		
20	PAN INCHARGE	3(S)	1	Vinod Kumar		31-03-2036	
			2	Vacant	Academic: Matric 2nd division with Sugar Boiling Certificate course. Experience: 5 yrs .as Panman with total 10 years exp. at Pan Control. .		
			3	Vacant			
21	PAN MAN	7(S)	1	Davender Singh		30-06-2027	
			2	Suresh		31-03-2029	
			3	Vinod		31-03-2028	
			4	Vacant	Academic: Matriculate(Science) 2nd division with Sugar Boiling certificate course. Experience : 5 years as Assistant Panman.		
			5	Vacant			
			6	Vacant			
			7	Vacant			
22	ASSTT. PAN MAN	7(S)	1	Om Parkash	Academic: Matriculate Experience: 3 yrs. on Pan Station with Sugar Boiling certificate course will be preferred .	30-11-2033	
			2	Vacant			
			3	Navneet Kumar		31-08-2040	
			4	Vacant			
			5	Vacant			
			6	Vacant			
			7	Vacant			

23	MAGMA OPERATOR	7(S)	1	Indal		31-03-2040	
			2	Mukesh		30-04-2041	Will work as Evaporator Coolie.
			3	Gulab Singh		30-09-2042	
			4	Parveen Kumar		31-01-2044	
			5	Bindar		31-01-2045	Will work as Sugar Hopper Coolie.
			6	Krishan Kumar		31-01-2039	Molasses recorder (diminishing cadre emp will work as magma operator.
			7	Nagendra		31-12-2029	Molasses recorder (diminishing cadre emp will work as magma operator.
25	COOLIE		1	Vacant	Academic: Middle pass & Healthy persons		
			2	Harender Prasad		31-05-2030	
	Evaparator PRD Coolie	4	3	Vacant			
	Pan Coolie	11	4	Krishan Yadav		30-09-2042	Will work as Vacuum filter coolie
	Grader Coolie	4	5	Vacant			
			6	Vacant			
			7	Vacant			
			8	Vacant			
			9	Vacant			
			10	Vacant			
			11	Vacant			
			12	Vacant			
			13	Vacant			
			14	Shyam Lal		31-07-2032	
			15	Harihar		31-05-2027	Will work as Magma Operator.

			16	Mohinder		31-01-2032	Will work as Evaporator Collie.
			17	Rajinder		31-05-2032	Will work as Sugar Hopper Coolie.
			18	Nandi		31-10-2034	Will work as Magma Operator.
			19	Rameshwer		30-06-2039	Will work as Evaporator Collie.
			20	Vacant			
		Per Month Salary of sanctioned vacant posts during season					
				FFE opeartors	4 nos		Minimum two years experience required of same.
				Continuous Panman	7 Nos		Minimum two years experience required of same.
				Continuous Panman Helper	04 nos.		Minimum two years experience required of same.
				Refinery Section			
				Panman	07 nos		Minimum two years experience required of same.
				Panman Helper	11 Nos		Minimum two years experience required of same.
				Refinery Crystalizer Attd.	07 nos		Minimum two years experience required of same.

				Centrifugal Machine Operator	07 Nos.			Minimum two years experience required of same.
				MCS				
				MCS Operator	04 Nos.			Minimum two years experience required of same.
				MCS Operator Helper	03 Nos.			Minimum two years experience required of same.
				Sanctioned	Net Available for O&M	Net Required for O&M		
	Total Permanent Sanctioned Post			9	4	5		
	Total Seasonal Sanctioned Post			102	33	69		
	Manpower required other than sanctioned staff strength i. e FFE Operator, Continuous Pan Staff, Refinery Section Staff.					54		
	TOTAL					128		

THE PANIPAT COOP: SUGAR MILLS LTD., PANIPAT

Staff required from Contractor for off-season and crushing season ANNEXURE-AAA

NAME	Sr.	NAME OF POST	Nos.	Sr.	Name of Employees	Qualification and Experience	REMARKS
OF	No.		of	No.	(S/Sh.)		
DEPARTMENT			Post				
			P/S	1	2	3	
	1	Boiler Operation Engineer.	1(P)	1	Vacant	Academic: Degree in Mechanical Engineering with Boiler Operation Engineering certificate (55% marks) Experience: 2 yrs.exp. on Pressure Boilers of minimum 32 kg/Sq. CM. Computer course upto 'O' level.	
	2	Asstt. Engineer (Mech.)	3(P)	1	Vacant	Academic :Degree in Mechanical Engineering (55% marks) Experience: At least 1 yr apprenticeship in Sugar Industry or completion of the Sugar Engineering Course from the NSI, Kanpur. Computer course upto 'O' level.	
				2	Vacant		
				3	Vacant		
	3	Draftsman	1(P)	1	Vacant	Academic: ITI Certificate in Draftsmanship Mechanical. Experience: At least one year as Apprentice in sugar mills	
		Welder		1	Vacant	Academic/Experience i) ITI certificate in Welder Trade with 3 yrs. as Welders. ii) ITI certificate in Welder Trade with 3 yrs. as High Pressure Welder.	
	4	Welder (Seasonal)	2(S)	1	Vacant		
				2	Vacant		
	5	Inst. Mechanic	4(P)	1	Vacant	Academic: ITI in	

				2	Vacant	Instrument/Electronic Trade. Experience: 3 yrs. of handling instruments & Auto Control System in Sugar Mills/ Power House/Large Chemical or Process Plant.	
				3	Vacant		
				4	Vacant		
	6	Inst. Attd.	4(P)	1	Vacant	Academic: ITI in Instrument/Electronic Trade. Experience: 3 yrs. of handling instruments & Auto Control System in Sugar Mills/ Power House/Large Chemical or Process Plant.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	7	Sanitary Fitter	1(P)	1	Vacant	Academic: ITI certificate in Plumbing or Fitter trade. Experience: 2 yrs as Sanitary Fitter/Plumber	
	8	Sanitary Fitter Helper	1 (P)	1	Vacant	ITI Certificate in plumbing	
	9	Head Khalasi	1(P)	1	Vacant	Academic: Middle pass. Experience: Should have worked as Khalasi for 8 yrs. in sugar mills.	
	10	Khalasi	6(P)	1	Vacant		
				2	Vacant		
				3	Vacant		
				4	Vacant		
				5	Vacant		
				6	Vacant		
	11	Workshop Foreman	1(P)	1	Vacant	Academic: ITI certificate in Turner Machinist trade. Experience: 6 yrs. of Workshop in Sugar mill as Turner/Machinist. Preference will be given to diploma in Mechanical Engineering with 2 years exp.	

	12	Workshop Fitter	1 (P)	1	Vacant	Academic: ITI Certificate in Fitter Trade Experience : 2 years exp. in similar capacity in sugar mills or 8 years exp. as Fitter-II in Sugar Mills.	
	13	Black Smith	1(P)	1	Vacant	Academic: ITI certificate in Black Smith. Experience: 2 yrs. in similar capacity in sugar mills.	
	14	Pattern Maker/ Carpenter	1(P)	1	Vacant	Academic: ITI certificate in pattern maker/ Carpentry trade Experience: 2 yrs. as Pattern Maker I or 2 yrs. as Carpenter in a sugar mills.	
	15	Mill House Helper	3 (P)	1	Vacant	ITI in Fitter Trade.	
				2	Vacant		
				3	Vacant		
	16	Boiling House Fitter Helper	4 (P)	1	Vacant	ITI in Fitter Trade.	
				2	Vacant		
				3	Vacant		
-				4	Vacant		
-	17	Centrifugal Helper	4 (P)	1	Vacant	ITI in Fitter Trade.	
-				2	Vacant	ITI in Fitter Trade.	
-				3	Vacant		
-				4	Vacant		
	18	Electrical Helper	3 (P)	1	Vacant	Should be ITI in Electrical trade.	
				2	Vacant		
				3	Vacant		
	19	D.C.S.Operator	3 (S)	1	Vacant	Academic: Diploma (Mechanical, Electrical and Instrumentation) Experience: 1 yrs.	will work as Turbine DCS Operator
				2	Vacant		will work as Turbine DCS Operator
				3	Vacant		will work as Turbine DCS Operator
	20	Motor Pump Att./B.C. Att.	7(s)	1	Vacant	Academic: ITI in Fitter trade. Experience: One year	
				2	Vacant		

				3	Vacant	Apprentice work in Sugar Mills	
				4	Vacant		
				5	Vacant		
				6	Vacant		
				7	Vacant		
	21	Foreman (Electrical)	1(P)	1	Vacant	Academic : Matric 2nd Division with ITI in Electrical. Experience: 10 years as Electrician in Sugar Mills	
	22	Electrician	4 (P)	1	Vacant	Academic : ITI in Electrician Trade. Experience :2 yrs. as Electrician or 8 years in Electrical Deptt. of the Sugar Mills.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	23	Wire Man	3(P)	1	Vacant	Academic : ITI certificate in Electrical/ Wireman trade Experience: 2 yrs as Wireman or 6 yrs. as Wireman Helper in Sugar Mills	
				2	Vacant		
				3	Vacant		
	24	Switch Board Attendant	1 (P)	1	Vacant	Academic : ITI certificate in /Elect/ Wireman Trade. Experience: 2 yrs. in Electrical Deptt. of a Power Plant above 1.5 MW capacity in sugar mills..	
	25	Switch Board Attendant	3 (S)	1	Vacant		
				2	Vacant		
				3	Vacant		
	26	Turbine Mechanic	1(P)	1	Vacant	Academic :Diploma in Mech. Engg. Experience: 3 years as Turbine Mechanic of minimum 10 MW Power/Cogen Plant. OR Academic: Matric with ITI in Fitter Trade of Stream Turbine -cum - Auxiliary Plant of Diesel Engine Trade. Experience: 5 yrs. as Turbine Mechanic of	

						minimum 10 MW power Cogen Plant.	
	27	Turbine Attds.	3(S)	1	Vacant	Academic ITI in Auto Mobile Mechanic/ Diesel Engine. Experience: 2 yrs. operating High pressure steam Turbine.	
				2	Vacant		
				3	Vacant		
	28	Mill House Foreman	1(P)	1	Vacant	Academic: ITI in Fitter Trade Experience : 6 yrs. in Sugar Industry as Head Fitter of Mills or 2 yrs. as Mill House Foreman in Sugar Mills. Preference will be given to Diploma in Mechanical Engineering.	
	29	Mill Turbine Attendant	10(S)	1	Vacant	Qualification of DCS Operator should be considered	Mill DCS Operator required against this post
				2	Vacant		Mill DCS Operator required against this post
				3	Vacant		Mill DCS Operator required against this post
				4	Vacant		Mill DCS Operator required against this post
				5	Vacant		Power Turbine & PRDS Field operator required against this post.
				6	Vacant		Power Turbine & PRDS Field operator

							required against this post.
				7	Vacant		Power Turbine & PRDS Field operator required against this post.
				8	Vacant		Power Turbine & PRDS Field operator required against this post.
				9	Vacant		Power Turbine & PRDS Field operator required against this post.
				10	Vacant		Power Turbine & PRDS Field operator required against this post.
	30	Head Fitter/Fitter Mill	3 (P)	1	Vacant	Academic: Matric with ITI in Fitter trade. Experience: 8 yrs. exp. as Fitter –I in sugar mills	
				2	Vacant		
				3	Vacant		
	31	Cane Unloader Operator	1(P)	1	Vacant	Academic: Matric Experience :3 yrs. in operation of 3 motion Cane Un loader in a sugar mills. ITI (Electrical or Fitter trade) will be preferred.	
	32	Cane Unloader Operator	10(S)	1	Vacant	Academic: Matric Experience :3 yrs. in operation of 3 motion Cane Un	
				2	Vacant		
				3	Vacant		

-				4	Vacant	loader in a sugar mills. ITI (Electrical or Fitter trade) will be preferred.	
				5	Vacant		
				6	Vacant		
				7	Vacant		
				8	Vacant		
				9	Vacant		
				10	Vacant		
	33	Cane Cutting Opt. /Attendant	4(S)	1	Vacant	Academic: Matric, ITI Certificate in any Trade. Experience: 1 year Apprentice work in Sugar Mill.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	34	Oilman/ Boiling/ Mill House	3 (S)	1	Vacant	Academic: ITI in Fitter trade. Experience: One year Apprentice work in Sugar Mills.	
				2	Vacant		
				3	Vacant		
	35	B.Chemist/DM Plant Att.	1(P)	1	Vacant	B.SC Chemistry and having one year experience on high pressure boiler.	
	36	B.Chemist/DM Plant Att.	3(S)	1	Vacant		
				2	Vacant		
				3	Vacant		
	37	Boiler Attendant	(4)P	1	Vacant	Academic: Matric (2nd Division) pass holding Ist class Boiler Competency certificate as laid down in the Indian Boiler Act Experience: 5 yrs. as Boiler Attd. in Operation of high pressure Boilers.	
				2	Vacant		
-				3	Vacant		
				4	Vacant		
	38	Fire Man	1(P)	1	Vacant	Academic: Matric and 2nd Class Boiler Competency exam. passed. Experience: 2 yrs. as Fireman at high pressure boiler in sugar mill or 5 yrs. as Fireman.	
	39	Fire Man	3(S)	1	Vacant		
				2	Vacant		
				3	Vacant		
	40	Boiler Att. Helper	4 (P)	1	Vacant	Academic: Matric (2nd Division) pass holding Ist class Boiler Competency certificate as laid down in the Indian Boiler Act	
				2	Vacant		
				3	Vacant		
				4	Vacant		

						Experience: 1Year Apprentice work in Sugar Mill.	
	41	Feed Pump Attendant	4 (S)	1	Vacant	Academic: ITI in Fitter trade. Experience : At least 3 yrs. on Boilers/Feed Pump in sugar mills on 21kg/cm ² . Preference will be given to candidates who have cleared 2nd class Boiler Attendant course.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	42	Water Man	7(S)	1	Vacant	Academic: Matric and 2nd Class Boiler Competency exam. passed. Experience: 2 yrs. as Waterman on 21 kg /cm ² pressure boiler of 40 ton . capacity per hour or 8 yrs. as Feed Pump Attendant.	
-				2	Vacant		
-				3	Vacant		
-				4	Vacant		
-				5	Vacant		
-				6	Vacant		
-				7	Vacant		
	43	Boiling House Foreman	1(P)	1	Vacant	Academic I.T.I.in Fitter trade. Experience: 6 yrs in Sugar Mill as Head Fitter in Boiling and Centrifugal House or two yrs. as Boiling House Foreman. Preference will be given to Diploma in Mechanical Engineering.	
-	44	CF Mechanic	1(P)	1	Vacant	Academic: Matric with ITI Certificate in Fitter trade Experience: 8 years as Centrifugal Fitter in sugar mills	
-	45	Boiling HouseHead Fitter/ Fitter	3 (P)	1	Vacant	Academic: Matric with ITI in Fitter trade. Experience: 8 yrs. exp. as Fitter –I in sugar mills	
-				2	Vacant		
-				3	Vacant		
-	46	Centrifugal Fitter	4 (P)	1	Vacant	Academic: ITI	

-				2	Vacant	Certificate in Fitter Trade Experience : 2 years exp. in similar capacity in sugar mills or 8 years exp. as Fitter-II in Sugar Mills.	
-				3	Vacant		
-				4	Vacant		
-	47	Motor Pump Att.	6 (S)	1	Vacant		
-				2	Vacant		
-				3	Vacant		
-				4	Vacant		
-				5	Vacant		
-				6	Vacant		
		Co-Gen.					
	48	Dy. Chief Engineer	1(P)	1	Vacant	Academic: Degree in Mechanical/ Electrical/ Instrumentation Engineering (55% marks) Experience: 6 years experience as Asstt. Engineer in Sugar Industry. Computer course upto 'O' level .	
	49	Electrical Engineer	1(P)	1	Vacant	Academic: Degree in Electrical Engineering (55% marks) Experience: At least 1 yr. in maintenance and running of power station/One year apprentice in Sugar Industry. Computer course upto 'O' level.	
	50	Turbine Engineer	1(P)	1	Vacant	Academic: B.E.(mech.Engg.) Exp. 2year as a Turbine Engg. In power/Cogen plant minimum 10MW	
	51	DCS Operator	4(P)	1	Vacant	Diploma in Mech, Electrical, Instrument, Exp- 1 Year of DCS Operation	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	52	Cooling Water Pump Att.	4(S)	1	Vacant	Academic: ITI in Fitter trade. Experience : At least 3 yrs. on	
				2	Vacant		
				3	Vacant		

				4	Vacant	Boilers/Feed Pump in sugar mills on 21kg/cm ² . Preference will be given to candidates who have cleared 2nd class Boiler Attendant course.	
	53	Electrician (Co-gen.)	1(P)	1	Vacant	Academic : ITI in Electrician Trade. Experience :2 yrs. as Electrician or 8 years in Electrical Deptt. of the Sugar Mills.	
	54	DY. CHIEF CHEMIST	1(P)	1	Vacant	Academic : B.Sc. Degree (IInd Division) with Physics Chemistry & Maths plus ANSI IInd Division (Sugar Technology)or any equivalent qualification or Degree in Chemical Engg. Experience : 5 years as Mfg. Chemist. Computer course upto 'O' level.	
	55	MANUFACTURING Chemist	1(P)	1	Vacant	Academic: B.Sc. (2nd Division) Degree plus ANSI/VSI. with minimum 60% marks (Sugar Technology). Experience: One year as Apprentice Chemist. Computer course upto 'O' level.	
	56	LAB INCHARGE	1(P)	1	Vacant	Academic: B.Sc. degree with Physics, Chemistry & Maths with three months diploma in Computer Applications. Experience : 2 yrs. as Lab Incharge in a Sugar Mill or 8 yrs. as Lab Chemist in a Sugar Mill .Preference will be	Mill may ask another equivalent manpower against this sanctioned post as this manpower will be arranged by mill itself also.

						given to candidate possessing diploma in Sugar Technology from NSI/VSI. Computer course upto 'O' level.	
	57	LAB CHEMIST	3(S)	1	Vacant	Academic : B.Sc. Degree with physics Chemistry & Maths IInd Division. Computer course upto 'O' level.	Mill may ask another manpower against this sanctioned staff as this manpower will be arranged by mill itself also.
				2	Vacant		
				3	Vacant		
	58	SUGAR HOUSE CLERK	4(S)	1	Vacant	Academic : Graduate preferably B.Com with 'O' level computer course.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	59	P.H.RECORDER/Analyst	4(S)	1	Vacant	Academic : 10+2 in Science Experience: 2 yrs. apprentice work in a sugar mills or similar position in any industry.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	60	PEON TO CHIEF CHEMIST	1(P)	1	Vacant	Middle with knowledge of catering	Mill may ask another manpower as per suitability.
	61	CENTRIFUGAL	4(S)	1	Vacant	Academic: Matric with ITI Certificate in Fitter trade Experience: 8 years as Centrifugal Fitter in sugar mills	
		MATE		2	Vacant		
				3	Vacant		
				4	Vacant		
	62	EVAPORATOR ATT.	1(S)	1	Vacant	Academic: Matriculate(Science) with ITI pass and Experience: One season apprentice at Evaporator Station	

	63	JUICE MACER. RECORDER	1(S)	1	Vacant	Academic: Matriculate Ist. Division or 10+2 2nd Division. Experience: One year apprentice work.	
	64	JUICE & SYRUP ATT.	1(S)	1	Vacant	Academic: Matriculate Ist. Division or 10+2 2nd Division. Experience: One year apprentice work.	
	65	JUICE HEATER ATT.	2(S)	1	Vacant	Academic: ITI Experience: 5 yrs. as Attendant on same station	
				2	Vacant		
	66	CLARIFIER ATTENDANT	4(S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	67	VACUMME FILTER ATT.	3(S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station	
				2	Vacant		
				3	Vacant		
	68	Deficator ATT.	4(S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	69	Lime Attendant	1 (S)	1	Vacant	Academic ITI. Experience: One season apprenticeship on same station	
	70	CENTRIFUGAL OPERATOR	7(S)	1	Vacant	Academic: ITI Experience: 5 yrs. as Attendant on same station.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
				5	Vacant		
				6	Vacant		
				7	Vacant		
	71	HEAD PAN MAN	1(P)	1	Vacant	Academic: Matric 2nd division in Science with Diploma in Sugar Boiling Course from NSI., Kanpur or VSI Pune. Experience: 10 yrs.	

						practical experience as Pan Incharge in a sugar mills.	
	72	PAN INCHARGE	2(S)	1	Vacant	Academic: Matric 2nd division with Sugar Boiling Certificate course. Experience: 5 yrs .as Panman with total 10 years exp. at Pan Control. .	
				2	Vacant		
	73	PAN MAN	4(S)	1	Vacant	Academic: Matriculate(Science) 2nd division with Sugar Boiling certificate course. Experience : 5 years as Assistant Panman.	
				2	Vacant		
				3	Vacant		
				4	Vacant		
	74	ASSTT. PAN MAN	5(S)	1	Vacant	Academic: Matriculate Experience: 3 yrs. on Pan Station with Sugar Boiling certificate course will be preferred .	
				2	Vacant		
				3	Vacant		
				4	Vacant		
				5	Vacant		
	75	COOLIE	9(S)	1	Vacant	Academic: Middle pass & Healthy persons	
		Evaporator PRD Coolie		2	Vacant		
		Grader Coolie		3	Vacant		
				4	Vacant		
				5	Vacant		
				6	Vacant		
				7	Vacant		
				8	Vacant		
				9	Vacant		
Additional Power Required for Refinery, FFE's and Contionous Pans etc.							
	76				FFE operators	4 nos	Minimum two years experience required of same.
	77				Continuous Panman	7 Nos	Minimum two years experience required of same.

	78				Continuous Panman Helper	04 nos.	Minimum two years experience required of same.
					Refinery Section		Minimum two years experience required of same.
	79				Panman	07 nos	Minimum two years experience required of same.
	80				Panman Helper	11 Nos	Minimum two years experience required of same.
	81				Refinery CrystalizerAttd.	07 nos	Minimum two years experience required of same.
	82				Centrifugal Machine Operator	07 Nos.	Minimum two years experience required of same.
					MCS		Minimum two years experience required of same.
	83				MCS Operator	04 Nos.	Minimum two years experience required of same.
	84				MCS Operator Helper	03 Nos.	Minimum two years experience required of same.
					Sanctioned Staff Strenth	Net Available for O&M	Not required for O&M

		Total Permanent Engg Sanctioned Post	110	26	84+7
		Total Seasonal Engg Sanctioned Post	82	9	73
		Total Permanent Mfg Sanctioned Post	9	4	5
		Total Seasonal Mfg Sanctioned Post	102	33	69
		Manpower required other than sanctioned staff strenthi. e FFE Operator, Continous Pan Staff, Refinery Section Staff			54
		TOTAL	303	73	292

Cluster -1

2. The Rohtak Coop. Sugar Mills Ltd., Rohtak

Scope of Work

Job work of Engineering Deptt. for the mill of capacity 3500 TCD alongwith 16MW Co-Gen. Plant during Crushing Season 2026-27

(A) Mill House

1. Operation, Repair & maintenance of all Mills and Rotary screen complete in all respects will be in scope of Party.
2. Operation, Repair & maintenance of all Inter rake carriers, Main Rake, Belt conveyor, Bagasse elevator, MBC and RBC complete in all respects will be in scope of party.
3. Operation Repair & maintenance of all pumps and valves and all preparatory devices complete in all respects will be in scope of party .
4. All electrical, instrumentation overhauling and operation work of the Mill house and Complete lighting work, power supply during overhauling work will be in the scope of party.
5. Operation, Repair & maintenance work of all Cane unloaders complete in all respects including electrical and instrument work complete in all respects em will be done by the party.
6. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
7. Hydraulic Accumulator Checking & Testing will be in the scope of Party.
8. Main Cane carrier Cleaning and Juice bed cleaning work will be in the scope of Party.

(B) Boiler job works:-

1. Operation, Repair & maintenance of complete Boiler in all respects including all pressure parts, Economiser, Airheater, PRDS section, ESP including Travelling grate work will be in scope of party.
2. Operation, Repair & maintenance of all fans, all accessories and mountings including feed tank, deaerator tanks etc will be in scope of party.
3. Operation, Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in scope of party.
5. All electrical, instrumentation overhauling work of the Boiler, complete lighting work, power supply during overhauling work will be in the scope of party.
6. All work related to Liasoning and consent to operate from pollution control board will be in the scope of party. Cleaning and maintaining all the drainage channels of the complete plant free from sludge, solid & liquid waste will be in the scope of party.
7. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
8. External Cleaning job work will be in the scope of Party.
9. Ash Handling work will be in the scope of Party.
10. Bagasse Handling work will be in the scope of Mill.
11. RO plant Operation work, maintaining the Boiler water parameters & Cooling tower water parameters with chemicals will be in the scope of Mills.
12. Hiring of service engineer of KSB will be in the scope of Mill.
13. Operation of CPU plant will be in the scope of party .

(c) Turbine job works:-

1. Operation, Repair & maintenance of power turbine complete in all respects including Rotor, Diaphragm, relay cylinders, actuators, throttle valves, both casings, nozzle chest of turbine etc. will be scope of party.
2. Service, supervision, service engineer for Triveni turbine will be in the scope of mills.
3. Operation, Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in scope of party.
4. Operation, Repair & maintenance of Oil coolers, oil filters, GVC and ejector work will be in the scope of party.
5. Operation, Repair & maintenance of Condenser, CEP, etc complete in all respects will be in scope of party.
6. All electrical(including cooling tower),instrumentation overhauling work of the turbine, complete lighting work, power supply during overhauling work will be in the scope of party.
7. Operation, Repair & maintenance of Cooling tower, Cooling tower pumps, fans, Drift eliminators complete in all respects will be in the scope of party.
8. Oil Centrifuge work will be in the scope of party.

(D)Boiling house job works:-

1. Operation, Repair & maintenance of Evaporators, FFE's, Juice Heaters, Clarification house, Lime station, pan station, Crystallizers, Continuous Centrifugal machines, Batch type centrifugal machines, belt conveyor, FDBS, Grader and sugar handling system complete in all respects will be in scope of party.
2. Operation, Repair & maintenance of Injection section, spray pump section, spray channel complete in all respects will be in scope of party.
3. Operation, Repair & maintenance of Molasses tanks, ETP, STP complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Boiling house & Centrifugal house complete lighting work,power supply during overhauling work will be in the scope of party.
6. All work related to Liasoning and consent to operate from pollution control board of STP & ETP will be in the scope of party.
7. Operation and maintenance work of Sugar Handling system complete in all respects, all belt conveyors, Stackers etc. will be in the scope of party.

(E)Electrical job works:-

1. Repair, operation, maintenance & overhauling of complete electrical work of Mill House including all DC drives, fibrizer motors, Main rake & all IRC motors, BE, MBC, RBC motors,Cane carrier chain, Chopper & leveler motors, LTpanels, motor resistance & resistance panels, Cane unloader, motors & panels, Mill house crane complete in all respects will be in scope of party.
2. Repair,operation,maintenance & overhauling of power house including all LT & HT panels, all breakers,11kv breakers ,PCC& ACB Breakers panels, transformers, LAPPT, NGR, Capacitor panels, Alternators, exciter repairing (Radiator overhauling), AVR, GRP , MCSP, all VFD' s & panels complete in all respects will be in scope of party.
3. Repair, operation,& maintenance of complete electrical work of Boiling house and centrifugal house including all motors of juice pumps, clarification house motors, syrup pumps, molasses pumps, injection & sprays pumps, DC drives of Batch type centrifugal machines will be in scope of party.
4. Repair operation, & maintenance of Switch yard, SF6 breaker, operation, monitoring and repair of 4 DG sets (320KVA, 35 KVA& 720 KVA) complete in all respects AND Taking change-over and operation of power house the plant load during grid failure will be in scope of party.
5. Oil dehydration & overhauling of transformers & tap changer will be scope of Mill.
6. Repair & maintenance of motors of ETP, STP, Molasses tanks, Disposal tank, UGR, Service tanks etc complete in all respects will be in scope of party.

7. Repair, maintenance, overhauling & installation of all the residential lighting ,street lighting, officeslighting ,lighting panels and factory lighting complete in all respects & hydra or crane is require for above job will be scope of party.
8. Cleaning, tightening and repairing of all bus duct of LT & HT panels will be scope of party.
9. Checking, testing and installation of earth pits whenever required will be scope of party.
10. Repair and maintenance of canal water pump, electrical panels and motors at UGR will be scope in the party.
11. 33KV Line patrolling from Garnauthi Sub station to Baniyani Sub Station and Baniyani Substation to Sugar Mill in the scope of party.
12. All electrical work of petrol pump is in the scope of party.
13. Rewinding of motors will be in the scope of Mill.
14. Operation of Canal water pumps at Canal will be in the scope of Mills.
15. Operation of UGR,service tank, Lagoon& Disposal tank will be in the scope of Mill.
16. Operation, repair and maintenance of complete boiler section in all respects will be in the scope of party.

(F)Instrumentation:-

1. Operation, Repair & maintenance of complete instrument devices including all the pressure, temperature,vacuum gauges of Boiler,Mill, Turbine,Boiling House, centrifugal house & Refinery complete in all respects will be in scope of party.
2. All Instrumentation overhauling & calibration work including pressure ,temperature,vacuum,flow ,PH ,Conductivity transmitters, all flowmeters, pressure switches complete in all respects will be in scope of party.
3. Operation,Repair& maintenance of all air compressors complete in all respects will be in scope of party.
4. Operation,Repair& maintenance of air & water pollution system will be in the scope of party.
5. Overhauling of Air Conditioners of the control rooms will be in the scope of Party.

(G) Workshop:-

1. Repair & maintenance of workshop including lathe machines,Carpenter,blacksmith,hammerman,drill machine and shaper machine complete in all respects will be in scope of party.
2. All electrical overhauling work of the workshop complete lighting work,power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of pumps,valves& pipelines of UGR,Service tanks,Disposal tanks complete in all respects will be one by the party.
4. Jhanki preparation will be in the scope of Party.

(H)Refinery House

1. Operation, Repair& maintenance of all Pans and Centrifugal machines complete in all respects will be in scope of party.
2. Operation,Repair& maintenance of all Crystallizers,dosing tanks complete in all respects will be in scope of party.
3. Operation,Repair& maintenance of all pumps and valves complete in all respects will be in scope of party.
4. All electrical,instrumentation overhauling and operation work of the Refinery house and complete lighting work,power supply during overhauling work will be in the scope of party.

Manufacturing Department Job works:-

1. Running contract of Laboratory supervision, Preparation of all kind reports and maintains the lab record by quality control expert for season 2026-27.

Details of work:

1. Prepare the DMR, DPR & RT-7C during season
2. Special analysis during season
3. Manage/Supervision the laboratory during season
4. Prepare the RT-8C after season
5. Maintain the Lab record during season
6. Prepare the lab chemical requirement for the season
7. Fill-up and submission of Form-D1 to FSSAI
8. Fill-up and submission of Form-V to Environment Deptt.
9. Maintain the Lab record related to HPCB & CPCB.

2. Handle the bagassillo, Crystallizers, press mud, B & C melter, final molasses storage tank (molasses& water), molasses conditioner, pug-mills, gutters of masscuite and vertical crystallizers for the season 2026-27

Details of work:-

1. To handle the bagassillo for vacuum filter
2. To handle the Press mud of vacuum filters
3. To handle crystallizers of B & C grain
4. To handle melter of B & C Sugar
5. To handle the final molasses circulation pumps
6. To handle the water spray at molasses storage tank
7. To handle the B & C molasses conditioner
8. To handle the gutters of Raw, B & C massecuite
9. To handle the pug-mill of Raw, B & C massecuite
10. To handle the Raw, B & C vertical crystallizers
11. To handle the horizontal crystallizers of Raw, B & C massecuite

3. Complete operation of Evaporator, Raw house Pan, Clarifier, C/f House, refinery (450 tpd)& Lab analysis @ 3500 TCD for the season 2026-27.

Details of work:-

S.N.	Station	Capacity/Size	Job Work
1.	Clarifier	5600 HL, 20'x36'	Complete operation of clarifier i.e. operation of clear juice pumps, mud & juice liquidation valve, gate valve & flocculent preparation system
2.	Raw house Pans	80 ton – 01 nos. 60 ton – 04 nos. B conti pan- 25 T/HR C conti pan- 18 T/HR	Complete operation of all batch& continuous pan of Raw house including it's accessories i.e. syrup/melt/molasses tank & raw vacuum/seed crystallizer
3.	Centrifugal station	For Raw massecuite: Batch type machine- 1750 kg/charge- 3 nos. 1250 kg/charge- 1 nos. For B massecuite: Continuous machine-	Complete operation of all batch & continuous machine of raw house including its accessories i.e. All magma mixture, molasses receiver tank & pumps, SHWW system for batch type machines, Transient Heaters operation of cfw machines, all magma pumps, all pug mills and all hot/cold/steam vales of c/f machines

		NK-1500 - 01 Nos. NK-1100 - 01 Nos. WK- 1350 – 03 Nos. For CFW &CAW : Continuous machine- WK- 1350 – 04 Nos.	
4.	Laboratory	For all Shifts	Analytical Work: Sample collection (Cane, juice, bagasse syrup, lime molasses, massecuite, melt, & sugar), preparation, analysis and maintain records in Log-book Special analysis of Refinery i.e. pH & ICUMSA
		For All Shifts	Ph analysis work of juice, syrup, mud, melt, injection channel water, & condensate water. Hourly measurement of Juice & maceration
3.	All Refinery house	450 TPD	Complete operation of all refinery house from raw hopper to Sugar bins
4.	Complete operation of all units from raw juice heater to sugar production up to sugar bins	3500 TCD Raw house & 450 TPD refinery	
5.	Loading of molasses tanker from final molasses storage tanks & operation of its water and molasses circulation	03 Nos. Final molasses storage tanks	Complete handling of storage tanks during season & off season
8+.	Evaporator Station	Evaporator body & Heating surface(m2)	Complete operation of evaporator station i.e. operation of all evaporator bodies, juice & steam vales, syrup & condensate pumps, condenser, chemical boiling etc.
		Falling film 02 Nos. - 3200m2 each Semi-kestner–2500 m2 2100 m2 – 02 nos. 1600 m2 – 01 nos. 1000 m2- 01 nos. 600 m2- 01 nos. 500 m2 – 01 nos.	

Tubes cleaning work of all juice heaters, Evaporator bodies & Pans for crushing season 2026-27.

Details of work:-

4. For Mechanical cleaning

a) Evaporator

S. N.	Particular	Running	H.S.(m2)	No. Of Tubes (Apprx)
1	Semi kestner	1 st effect	2500	4712
2	2100 A	3 rd effect	2100	6284
3	2100B	3 rd effect	2100	6284
4	1600 body	4 th effect	1600	6027
5	1000 body	4 th effect	1000	3800
6	600 body	5 th effect	600	2264
7	500 body	5 th effect	500	1900
8	FFE I	1 st / 2 nd effect	3200	2790
9	FFE II	2 nd effect	3200	2790

b) Juice heater

S.N.	Particular	H.S.(M2)	No. Of Tubes
1	Raw juice heater	220	432
2	Defecated juice heater (3 nos.)	250	480 each
3	Clear juice heater	300	560
4	Vapour line juice heater (old)	220	432
5	Vapour line juice heater (new)	300	576
6	Condensate heater (03 nos.)	110	200 each

c) Pan

S.N.	Particular	H.S.(M2)	No. Of Tubes
1	Batch pan no.1	370	1685
2	Batch pan no. 2,3,4,6	280	1076 each
3	B Continuous pan	500	2186
4	C Continuous pan	540	2328
5	Refinery pan no.1	185	700
6	Refinery pan no.2 &3	232	886 each

B. For Chemical cleaning

Falling film evaporator

S.N.	Particular	H.S.(M2)	Total qty of chemicals to be provided in two steps (kg)
1	FFE 1 ST	3200	1000(apprx)
2	FFE 2 ND	3200	1000(apprx)

4. General cleaning work in boiling house & refinery for the season 2026-27.

Detail of work-

General cleaning work during season:

1. Cleaning of floor, platform, gutter, drain, pits of clarification, evaporation, FFE, pans & centrifugal station, drier house, spray pond screen, lime station, refinery etc.
2. Inside washing & cleaning of Juice Defecator and clarifier during scheduled cleaning.
3. Cleaning of drain from boiling house to ETP.
4. Minimum 03 nos. manpower of house keeping in each shift to be maintained.
5. shifting & cleaning of carbon ash from refinery to other and away .place

5.Preparation of M.O.L & loading /Unloading of various material received in our store for season 2026-27

Details of work –

1. Loading/Unloading of lime grit by tractor trolley.
2. Unloading of BHC, Urea, chemicals, Soda ash and its stacking in the store.
3. Unloading of lime from trucks and stack in the lime Godown.
4. Unloading of jute bags /p.p. bags bales stacking in store.
5. To take lime from lime godown and unload it to lime Slacker. Ready lime dissolving in water as per direction of shift chemist/ Chief chemist.
6. Unloading of Refinery chemicals.
7. Loading of store rejected material.
8. Shifting of chemicals from store to Raw & Refinery house as per requirement.

6. Complete operation of ETP & STP as per guidelines of HSPCB/CPCB for crushing season 2026-27.

1. Operation period of ETP will be start minimum one month before the start of crushing season and up to one month after end of season.
2. Complete Operation of STP for season & off season.
3. All work related to get the consent from HSPCB/CPCB i.e. paper work/legal formalities regarding ETP/STP to be completed by the Contractor.
4. Maintain the log book and upload on HSPCB site time to time.

7. Laboratory & sugar packaging equipments repairing & calibration work for season 2026-27.

Detail of work:-

1. Calibration, overhauling, repairing and maintenance of sucroscan, polarimeter, lab crusher, Rappipoll extractor, stitching machine ,Sugar pouch packaging machine and sugar bags printing machine in all respect.

General conditions:-

1. Note:- a)All the work which is not specified in the scope of Mills and necessary for repair, maintenance and operation of plant will be in the scope of party.

- b) Any other work which is required to be done from the outside workshop will be in the scope of mills provided that this work is not possible to be done in the plant.
2. All the lagging & insulation work during season and crushing season will be in the scope of Mill
3. All civil jobs including roof sheds repairing work during off season and crushing season will be in the scope of Mills.
4. Water balance & management will be in the scope of party.
5. Rewinding of all the motor during season will be in the scope of Mill..
6. All consumable item will be in the scope of Mills.

Overhauling, Repair & Maintenance:

1. For details of work the interested party may inspect the plant for assessment of work.
2. The successful tenderer will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within two weeks of receiving final work order.
3. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
4. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
5. Any other work which is not specified but required for smooth functioning of the mill(Cleaning in the plant,drainchannels,cleaning,firebrokeoutextinguishing,maintaining hygiene in the plantetc will also be done by the party.
6. If the party fails to deliver the work allotted as per scope and the terms and conditions of the tender, HCSM shall get the work executed from any other agency at the risk and cost of the party.
7. The List of AMC's in the Mill & Party scope attached will be applicable in the Crushing Season .
8. AMC for following Servicing/repairing of various equipment's and machinery shall be got done by the successful bidder from the OEM (Original Equipment Manufacturer)/ OEM authorized service provider. The copies of orders placed with the OEM/OEM authorized service provider shall have to be submitted to the mills within 45 days of entering into contract/ending of the crushing seasons. The bidder shall have to provide the certificates of services/repair carried out from OEM (Original Equipment Manufacturer)/ OEM authorized service provider atleast 20 days before the schedule of trails of the plant. In case of the failure of non-submission of work order in the schedule time, the mill management shall have at liberty to get done the left-out work from the OEM at the risk and cost of the contractor.

8.(a) List of AMC'S in party Scope

Sr. No.	Job Works	Make
1	Safety Valve Overhauling	OEM
2	Start up Vent Overhauling	Reputed firm
3	Servicing of DG set	Kirloskar & Cummins
4.	SLDC Power export generation data sent to SLDC	Reputed Professional service provider.
5	Siemens make DCS System	Siemens

6	Walky Talkie overhauling	Sanchar/Reputed firm
7	Compressors overhauling	Kirloskar, IR & Chicago
8	UPS Overhauling	Emerson
9	Overhauling of Air conditioners in the control room	Voltas/Reputed firm
10	Grader IC & Bevcon make servicing	IC & Bevcon
11	SF6 breaker Servicing	Reputed firm
12	Battery Charger Servicing	Reputed firm
13	HT Breakers -11KV servicing	Reputed firm
14	Control Valve Overhauling	MIL
15	Bagging Machines Overhauling	Power Built/Reputed firm

8.(b) List of AMC'S in Mill Scope

Sr. No.	Job Works	Make
1.	Triveni Turbine & 33 KV Relay Panel Overhauling	Triveni
2.	ABB make VFD Servicing	ABB
3.	Schneider make VFD Servicing	Schneider
4.	Relay of Triveni Turbine & 33 KV Relay Panel Testing	Reputed service provider

9. Fabrication and Erection job works will be in the scope of Mill (Details attached-Annexure-D) .
10. Electrical job works will be in the scope of Mill (Details attached-Annexure-E) .
11. The seasonal/DP/Retainership manpower-10 nos. per month will be provided by the Mill during off-season and the seasonal/DP/Retainership manpower-15 nos. month will be provided by the Mill during Crushing Season .
12. Scrap shifting work from plant to Scrap yard will be in the scope of party .
13. Hydra & JCB required for repair & maintenance work will be in the scope of party.
14. Boiler Stack & Effluent treatment plant of sugar mill will be operated as per CPCB/HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/HSPCB Server. Any chemicals/fertilizers etc. required to run the ETP efficiently will be provided by the mill. If any violence of pollution norms occurred due to negligence of party or any fine/penalty imposed due to failure of any sampling or violation of CPCB/HSPCB guidelines then bidder will be fully responsible for the same and will be recover by the bidder.

Operation of Plant during crushing season:

1. The scope of work for operation during the crushing season will involve all other jobs required for operation of plant including Housekeeping, cleaning of complete plant will also be in the scope of party.
2. All Electrical and instrumentation work will be in the scope of Party(operation & maintenance).
3. ETP & STP operation and maintenance will be in the scope of party.
4. Operation & maintenance of Excess condensate pit complete in all respects during Crushing season and off-season will be in the scope Mill.
5. Operation & maintenance of Condensate polishing unit(CPU) complete in all respects during Crushing season and off-season will be in the scope of party.

Manpower:

1. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt. The number and qualification of manpower engaged should be as per sanctioned posts finalized by the Sugar Federation, Panchkula.
2. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement given during Crushing season.
3. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.
4. The firm will be responsible for deduction of EPF/ any other such liability from their employees and HCSM will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.
5. Group insurance of the employees of the firm will be the responsibility of the Firm and HCSM will not be responsible for any claim which may be made under the workmen compensation Act and other Acts.
6. In the event of any accident/causality etc. of the employees of the firm and HCSM will not be responsible and Firm will ensure all safety measures for its employees.
7. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
8. The firm/ party shall withdraw those Employees, who are not performing the work to the satisfaction of the HCSM or for their misconduct and such employees will be replaced as may be suitable to HCSM. However, the firm will not transfer the duty of its employees without the consent of the HCSM.
9. Successful bidder shall provide man power as and when required as prequalification, age, physical norm as mentioned in by- laws/rules of Cooperative sugar Mills.

15.Manpower

Mill will provide the existing available technical staff of Engineering and Manufacturing Department (up to the level of Supervisory Staff except HODs, DY. HODs and Engineers/Chemists, all DCS operators)available with the Mills. The Existing available permanent + Seasonal+ Daily wager manpower of the mills in crushing seasons for the operation of the plant. To run the Plant in smooth manner rest of remaining required staff/manpower as per Haryana Co Op Sugar Mill, Rohtak Sanctioned Staff Strength for 3500 TCD Sugar Mill Plant along with 16 MW Cogen Plant/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters. Required

manpower(Annexure – F)is mandatory to deployed by party. Vacant post manpower (Annexure-C)is attached. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure satisfactory R&M work . The Existing manpower of the mills (as per list annexed as Annexure-B) will be utilized by the party at the relevant post looking at suitability by the Party. Party ensures to engage and depute at least one Technical Head of Mechanical Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff according to run the plant efficiently in all manners comprising four shifts i.e. A, B, C & R.

The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season every year and if any change/addition as and when takes place. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorated deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

16.The replacement of technical Staff/Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract, will be in the Scope of Prospective Bidder /Party.

17.PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available than Party should provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, The Haryana Co. Op Sugar Mills Ltd., Rohtak.

18.Below mentioned manpower is essential to be provided during season for contractual jobs.

Sr.No.	Work Description	Manpower Category	Manpower Required				Remarks
			Shift A	Shift B	Shift C	Shift R	
1	Donga Cleaning	Un-skilled	3	3	3	2	1 No. Tractor required
2	Cane Carrier, MRC and Mill bed coolie cleaning contract	Un-skilled	6	6	6	3	
3	Ash Handling including cleaning of scattered ash at boilers	Unskilled	4	4	4	2	02 Nos tractors with trolley including diesel required round the clock for ash shifting with in factory premises.

4.	DCS Operators at Mill house	Skilled	1	1	1	1	
5.	CPU	Skilled	2	2	2	1	
6.	DCS Operators at Turbine	Skilled	1	1	1	1	
7.	DCS Operators at Boiler	Skilled	1	1	1	1	
8.	ETP & STP Operation	skilled	1	1	1	1	
		unskilled	1	1	1	1	
9.	Plant Sanitation	unskilled		8	8	4	Mill, Boiling, Boiler & Turbine House including control rooms, All drains only inside the factory.

Note:- If any other job work arises for operation, repair & maintenance other than above mentioned contractual labour job works then it will be in the scope of party.

19. Fire-Fighting system should be maintained and operated round the clock by bidder for the safety of plant.

20. Loss of any vehicle of farmer or contractor due to the faulty functioning of the bidder manpower the same will be borne by bidder.

21. The overtime of the permanent /Seasonal/Daily paid staff in the absence of staff of O & M agencies or extra work required in the plant will be paid by the Mills management & debited to the agency duly recorded in the

time office of Mill & HR department of party. The overtime will be verified from the site in charge of the agency and Engineering / Manufacturing department.

22.0 Accommodation

22.1 Accommodation for staff of the PARTY in the **Dormitory only** will be made available on free by the MILL subject to availability of the Dormitory Accommodations with the Mills. Power supply will be Chargeable.

22.2 All other arrangements for food, medical, transportation etc. will be made by the PARTY.

22.3 The mill management will be authorized to vacate the provided accommodation.

Misc.: -

1. Party shall ensure that annual expenses on account of consumption of store & spare items are as per industry norms and not more than the average cost of last three years of our own sugar mill. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.
2. Season will be started in 2nd week of November.
3. Cane survey report will be handed over in due time.
4. Total cane to be crushed will be approx. 35 Lakhs $\pm$ 5 lakhs qtls.
5. Season may go on till month of May or till the complete crushing of cane in the assigned area.
6. Cane allotted from other mills as per MD Sugarfed or Cane Commissioner will also be considered as our own cane(if any).
7. All orders and directions as and when given by Haryana Govt., MD Sugar federation, RCS, DC-Chairman Rohtak, BOD/BOA of Rohtak mill shall be binding and non-negotiable.

SCOPE OF WORK

Job work of Engineering Deptt. for the mill of capacity 3500 TCD alongwith 16 MW Co-Gen. Plant during Crushing Season 2027-28

(A) Mill House

1. Operation, Repair & maintenance of all Mills complete in all respects will be in scope of party.
2. Operation Repair & maintenance of all Inter rake carriers, MCC, Main Rake, Belt conveyor, Bagase elevator, MBC and RBC complete in all respects will be in scope of party.
3. Repair & maintenance of all pumps and valves complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Millhouse. Complete lighting workpower supply during overhauling work will be in the scope of party.
6. Repair & maintenance work of all Cane unloaders complete in all respects including electrical and instrument work complete in all respects will be done by the party.
7. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
8. Hydraulic Accumulator Checking & Testing will be in the scope of Party.
9. Main Cane carrier Cleaning and Juice bed cleaning work will be in the scope of Party.

(B) Boiler job works:-

1. Operation Repair & maintenance of Boiler including all pressure parts, Economiser, Airheater, PRD Section, ESP including Travelling grate work will be in scope of party.

2. Operation, Repair & maintenance of all fans, ash handling system, RO plant, bagasse handling section, all accessories and mountings including feed tank, deaerator tanks will be in scope of party.
3. Operating Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Boiler, complete lighting work, and power supply during overhauling work will be in the scope of party will be in scope of party.
5. All work related to Liasoning and consent to operate from pollution control board will be in the scope of party .Cleaning and maintaining all the drainage channels of the complete plant free from sludge, solid& liquid waste will be in the scope of party will be in scope of party.
6. Any fire broke near the Plant machinery(Bagasse yard, molasses tanks,Switchyards, Boilinghouse etc) which can damage the machineryout will be extinguished by the party will be in scope of party.
7. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
8. Internal & External Cleaning job work will be in the scope of Party.
9. Ash Handling work will be in the scope of Mill.
10. Bagasse Handling work will be in the scope of Mill.
11. RO plant Operation work, maintaining the Boiler water parameter & Cooling tower water parameters will be in the scope of Mills.
12. Hiring of Service Engineer for KSB make pumps will be in the scope of Mill.
13. Operation, Repair & maintenance of ESP complete in all respects will be in the scope of party.
14. Operation, repairing and maintenance of CPU complete in all respects will be in the scope of party.

(C)Turbine job works: -

1. Operation, repair & maintenance of power turbine complete in all respects including Rotor, Diaphragm, relay cylinders, actuators, throttle valves, both casings, nozzle chest of turbine etc. will be scope of party.
2. Service, supervision, service engineer for Triveni turbine will be in the scope of mills.
3. Operation Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in scope of party.
4. Operation Repair & maintenance of Oil coolers, oil filters, GVC and ejector work will be in the scope of party.
5. Operation Repair & maintenance of Condenser, CEP etc complete in all respects will be in scope of party.
6. All electrical(including cooling tower), instrumentation work of the turbine, complete lighting work, power supply during overhauling work will be in the scope of party.
7. Operation Repair & maintenance of Cooling tower, fans, Drift eliminators work complete in all respects will be in scope of party.
8. Oil Centrifuge work and Sandblasting work will be in the scope of party.

(D)Boiling house job works:-

1. Operation Repair & maintenance of Evaporators, FFE's, Juice heaters, Clarication house, Lime station pan station,Crystallizers, Continuous Centrifugal machines, Batch type centrifugal machines, belt conveyor, FBDS, Grader and Sugar handling system complete in all respects will be in scope of party.
2. Operation Repair & maintenance of Injection section, spray pump section, spray channel complete in all respects will be in scope of party.
3. Operation Repair & maintenance of Molasses tanks, ETP, STP complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Boiling house & Centrifugal house complete lighting work, power supply during overhauling work will be in the scope of party.

5. All work related to Liasoning and consent to operate from pollution control board of STP & ETP will be in the scope of party.
6. Operations and maintenance work of sugar handling system complete in all respects, all belt conveyors, stackers etc will be in the scope of party.

(E)Electrical job works:-

1. Repair , maintenance & overhauling of complete electrical work of Mill House including all MCC, DC drives, fibrizer motors, Main rake & all IRC motors, BE, MBC, RBC motors, Cane carrier chain, Chopper & leveler motors, LTpanels, motor resistance & resistance panels, Cane unloader, motors & panels, Mill house crane complete in all respects will be in scope of party.
2. Repair , maintenance &overhauling of power house including all LT & HT panels, all breakers,11kv breakers ,PCC& ACB Breakers panels, transformers, LAPT,NGR, Capacitor panels, Alternators Exciter (Radiator overhauling),AVR,GRP ,MCSP all VFD' s & panels complete in all respects will be in scope of party.
3. Repair & maintenance of complete electrical work of Boiling house and centrifugal house including all motors of juice pumps, clarification house motors, syrup pumps, molasses pumps, injection& sprays pumps, all MCC,DC drives of Batch type centrifugal machines will be in scope of party.
4. Repair & maintenance & servicing of Switch yard, SF6 breaker, operation, monitoring and repair of 4 DG sets (320KVA, 35 KVA& 720 KVA) complete in all respects. Taking change-over and operation of power house the plant load during grid failure (24x7) will be in scope of party.
5. Oil dehydration & overhauling of transformers & tap changer will be scope of Mill will be in the scope of Mill.
6. Repair & maintenance of motors of ETP, STP, Molasses tanks, Disposal tank, UGR, Service tanks etc complete in all respects will be in the scope of party.
7. All civil jobs including roof sheds of power house& DG set roof repairing work will be in the scope of Mills.
8. Repair ,maintenance, overhauling & installation of all the residential lighting, street lighting, offices lighting, lighting panels and factory lighting complete in all respects & hydra or crane is require for above job will be scope of party.
9. Cleaning, tightening and repairing of all bus duct of LT & HT panels will be in scope of party.
10. Checking, testing and installation of earth pits whenever required will be scope of party.
11. Repair and maintenance of canal water pump, ETP pumps, lagoon pumps etc., electrical panels and motors at UGR will be scope in the party.
12. 33KV Line patrolling from Garnauthi Sub station to Baniyani Sub Station and Baniyani Sub station to Sugar Mill in the scope of party.
13. All electrical work of petrol pump is in the scope of party.
14. Rewinding of motors will be in the scope of Mill.
15. Operation of Canal water pumps at Canal will be in the scope of Mills.
16. Operation of UGR, service tank, lagoon& Disposal tank will be in the scope of Mill .
17. Repair and maintenance of all motors, MCC, VFD of boiler section complete in all respects will be in the scope of Party .

(F)Instrumentation:-

1. Operation, Repair & maintenance of complete instrument devices including all the pressure, temperature, vacuum gauges of Boiler, Mill, Turbine, Boiling House & centrifugal house complete in all respects will be in scope of party.
2. All Instrumentation overhauling & calibration work including pressure, temperature, vacuum, flow, PH, conductivity transmitters, all flowmeters, pressure switches complete in all respects will be in scope of party.

3. Operation Repair & maintenance of all air compressors complete in all respects will be in scope of party.
4. Operation, repair & maintenance of air & water pollution system will be in the scope
5. Overhauling of Air Conditioners of the control rooms will be in the scope of Party.

(G) Workshop:-

1. Repair & maintenance of workshop including lathe machines, Carpenter, blacksmith, hammerman, drill machine and shaper machine complete in all respects will be in scope of party.
2. All electrical overhauling work of the workshop complete lighting work, power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of pumps, valves & pipelines of Service tanks, Disposal tanks complete in all respects including cleaning & water filtration system will be done by the party.
4. Jhanki preparation work will be in the scope of Party.

(H)Refinery House

1. Operation Repair & maintenance of all Pans and Centrifugal machines complete in all respects will be in scope of party
2. Operation Repair & maintenance of all Crystallizers, dosing tanks complete in all respects will be in scope of party.
3. Operation Repair & maintenance of all pumps and valves complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Refinery house and complete lighting work, power supply during overhauling work will be in the scope of party.

Manufacturing Department Job works:-

1. Running contract of Laboratory supervision, Preparation of all kind reports and maintain the lab record by quality control expert for off season 2027

Details of work:

01. Prepare the RT-7C during off season
02. Special analysis during season
03. Manage/Supervision the laboratory during season
04. Prepare the RT-8C after season.
05. Maintain the lab record during season
06. Prepare the lab chemical requirement for the season
07. Fill-up and submission of Form-D1 to FSSAI
08. Fill-up and submission of Form-V to Environment Deptt.
09. Maintain the Lab record related to HPCB & CPCB.

2. Handle the bagassillo, Crystallizers, press mud, B & C melter, final molasses storage tank (molasses& water), molasses conditioner, pug-mills, gutters of massecuits and vertical crystallizers for the season 2027-28

Details of work:-

01. To handle the bagassillo for vacuum filter
02. To handle the Press mud of vacuum filters
03. To handle crystallizers of B & C grain
04. To handle melter of B & C Sugar
05. To handle the final molasses circulation pumps
06. To handle the water spray at molasses storage tank
07. To handle the B & C molasses conditioner
08. To handle the gutters of Raw, B & C 97 Massecuite
09. To handle the pug-mill of Raw, B & C 97 Massecuite
10. To handle the Raw, B & C vertical crystallizers
11. To handle the horizontal crystallizers of Raw, B & C 97 Massecuite

03. Complete operation of Evaporator, Raw house Pan, Clarifier, C/f House, refinery (450 tpd) & Lab analysis @ 3500 TCD for the season 2027-28.

Details of work:-

S.N.	Station	Capacity/Size	Job Work
1.	Clarifier	5600 HL, 20'x36'	Complete operation of clarifier i.e. operation of clear juice pumps, mud & juice liquidation valve, gate valve & flocculent preparation system
2.	Raw house Pans	80 ton – 01 nos. 60 ton – 04 nos. B conti pan- 25 T/HR C conti pan- 18 T/HR	Complete operation of all batch& continuous pan of Raw house including it's accessories i.e. syrup/melt/molasses tank & raw vacuum/seed crystallizer
3.	Centrifugal station	For Raw massecuite: Batch type machine- 1750 kg/charge- 3 nos.	Complete operation of all batch & continuous machine of raw house

		1250 kg/charge- 1 nos. For B massecuite: Continuous machine- NK-1500 - 01 Nos. NK-1100 - 01 Nos. WK- 1350 – 03 Nos. For CFW &CAW : Continuous machine- WK- 1350 – 04 Nos.	including its accessories i.e. All magma mixture, molasses receiver tank & pumps, SHWW system for batch type machines, Transient Heaters operation of cfw machines, all magma pumps, all pug mills and all hot/cold/steam vales of c/f machines
4.	Laboratory	For all Shifts	Analytical Work: Sample collection (Cane, juice, bagasse syrup, lime molasses, massecuite, melt, & sugar), preparation, analysis and maintain records in Log-book Special analysis of Refinery i.e. pH & ICUMSA
		For All Shifts	Ph analysis work of juice, syrup, mud, melt, injection channel water, & condensate water. Hourly measurement of Juice & maceration
6.	All Refinery house	450 TPD	Complete operation of all refinery house from raw hopper to Sugar bins
7.	Complete operation of all units from raw juice heater to sugar production up to sugar bins	3500 TCD Raw house & 450 TPD refinery	
8.	Loading of molasses tanker from final molasses storage tanks & operation of its water	03 Nos. Final molasses storage tanks	Complete handling of storage tanks during season & off season

	and molasses circulation		
8+.	Evaporator Station	Evaporator body & Heating surface(m2) Falling film 02 Nos. -3200m2 each Semi-kestner– 2500 m2 2100 m2 – 02 nos. 1600 m2 – 01 nos. 1000 m2- 01 nos. 600 m2- 01 nos. 500 – 01 nos.	Complete operation of evaporator station i.e. operation of all evaporator bodies, juice & steam vales, syrup & condensate pumps, condenser, chemical boiling etc.

4. Tubes cleaning work of all juice heaters, Evaporator bodies & Pans for crushing season 2027-28.
Details of work:-

5. For Mechanical cleaning

a) Evaporator

S. N.	Particular	Running	H.S.(m2)	No. Of Tubes (Apprx)
1	Semi kestner	1 st effect	2500	4712
2	2100 A	3 rd effect	2100	6284
3	2100B	3 rd effect	2100	6284
4	1600 body	4 th effect	1600	6027
5	1000 body	4 th effect	1000	3800
6	600 body	5 th effect	600	2264
7	500 body	5 th effect	500	1900
8	FFE I	1 st / 2 nd effect	3200	2790
9	FFE II	2 nd effect	3200	2790

b) Juice heater

S.N.	Particular	H.S.(M2)	No. Of Tubes
1	Raw juice heater	220	432
2	Defecated juice heater (3 nos.)	250	480 each
3	Clear juice heater	300	560
4	Vapour line juice heater (old)	220	432
5	Vapour line juice heater (new)	300	576
6	Condensate heater (03 nos.)	110	200 each

c) Pan

S.N.	Particular	H.S.(M2)	No. Of Tubes
1	Batch pan no.1	370	1685
2	Batch pan no. 2,3,4,6	280	1076 each
3	B Continuous pan	500	2186
4	C Continuous pan	540	2328
5	Refinery pan no.1	185	700
6	Refinery pan no.2 &3	232	886 each

B. For Chemical cleaning

Falling film evaporator

S.N.	Particular	H.S.(M2)	Total qty of chemicals to be provided in two steps (kg)
1	FFE 1 ST	3200	1000(apprxx)
2	FFE 2 ND	3200	1000(apprxx)

6. General cleaning work in boiling house & refinery for the season 2027-28.

Detail of work-

General cleaning work during season:

1. Cleaning of floor, platform, gutter, drain, pits of clarification, evaporation, FFE, pans & centrifugal station, drier house, spray pond screen, lime station, refinery etc.
2. Inside washing & cleaning of Juice Defecator and clarifier during scheduled cleaning.
3. Cleaning of drain from boiling house to ETP.
4. Minimum 03 nos. manpower of house keeping in each shift to be maintained.
5. shifting & cleaning of carbon ash from refinery to other and away .place

7.Preparation of M.O.L & loading /Unloading of various material received in our store for season 2027-28

Details of work –

01. Loading/Unloading of lime grit by tractor trolley.
02. Unloading of BHC, Urea, chemicals, Soda ash and its stacking in the store.
03. Unloading of lime from trucks and stack in the lime Godown.
4. Unloading of juite bags /p.p. bags bales stacking in store.
5. To take lime from lime godown and unload it to lime Slacker. Ready lime dissolving in water as per direction of shift chemist/ Chief chemist.
6. Unloading of Refinery chemicals.
7. Loading of store rejected material

8. Shifting of chemicals from store to Raw & Refinery house as per requirement.

8. Complete operation of ETP & STP as per guidelines of HSPCB/CPCB for crushing season 2027-28.

1. Operation period of ETP will be start minimum one month before the start of crushing season and up to one month after end of season.
2. Complete Operation of STP for season & off season.
3. All work related to get the consent from HSPCB/CPCB i.e. paper work/legal formalities regarding ETP/STP to be completed by the Contractor.
4. Maintain the log book and upload on HSPCB site time to time.

09. Laboratory & sugar packaging equipments repairing & calibration work for season 2027-28.

Detail of work:-

1. Calibration, overhauling, repairing and maintenance of sucroscan, polarimeter, lab crusher, Rappipoll extractor, stitching machine, Sugar pouch packaging machine and sugar bags printing machine in all respect.

General conditions:-

1. Note:- a) All the work which is not specified in the scope of Mills and necessary for repair, maintenance and operation of plant will be in the scope of party.
- b) Any other work which is required to be done from the outside workshop will be in the scope of mills provided that this work is not possible to be done in the plant.
2. All the lagging & insulation work during season and crushing season will be in the scope of Mill
3. All civil jobs including roof sheds repairing work during off season and crushing season will be in the scope of Mills.
4. Water balance & management will be in the scope of party.
5. Rewinding of all the motor during season and crushing season will be in the scope of Mill..
6. All consumable item will be in the scope of Mills.

Overhauling, Repair & Maintenance:

01. For details of work the interested party may inspect the plant for assessment of work.
02. The successful tenderer will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within two weeks of receiving final work order.
03. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
04. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
05. Any other work which is not specified but required for smooth functioning of the mill (Cleaning in the plant, drain channels, cleaning, fire broke out extinguishing, maintaining hygiene in the plant etc) will also be done by the party.
06. If the party fails to deliver the work allotted as per scope and the terms and conditions of the tender, HCSM shall get the work executed from any other agency at the risk and cost of the party.
- 07. The List of AMC's in the Mill & Party scope attached will be applicable in the Crushing season .**

08. AMC for following Servicing/repairing of various equipment's and machinery shall be got done by the successful bidder from the OEM (Original Equipment Manufacturer)/ OEM authorized service provider. The copies of orders placed with the OEM/OEM authorized service provider shall have to be submitted to the mills within 45 days of entering into contract/ending of the crushing seasons. The bidder shall have to provide the certificates of services/repair carried out from OEM (Original Equipment Manufacturer)/ OEM authorized service provider atleast 20 days before the schedule of trails of the plant. In case of the failure of non-submission of work order in the schedule time, the mill management shall have at liberty to get done the left-out work from the OEM at the risk and cost of the contractor.

10.(a) List of AMC'S in party Scope

Sr. No.	Job Works	Make
1.	Safety Valve Overhauling	OEM
2.	Start up Vent Overhauling	Reputed firm
3.	Servicing of DG set	Kirloskar & Cummins
4.	SLDC Power export generation data sent to SLDC	Reputed Professional service provider.
5	Siemens make DCS System	Siemens
6.	Walky Talkie overhauling	Sanchar/Reputed firm
7.	Compressors overhauling	Kirloskar,IR& Chicago
8.	UPS Overhauling	Emerson
9.	Overhauling of Air conditioners in the control room	Voltas/Reputed firm
11.	Grader IC & Bevcon make servicing	IC & Bevcon
12.	SF6 breaker Servicing	Reputed firm
13.	Battery Charger Servicing	Reputed firm
14.	HT Breakers -11KV servicing	Reputed firm
15.	Control Valve Overhauling	MIL
16.	Bagging Machines Overhauling	Power Built/Reputed firm

10. (b) List of AMC'S in Mill Scope

Sr. No.	Job Works	Make
1.	Power turbine 16 MW & 33 KV Relay Panel Overhauling	Reputed service provider
2.	ABB make VFD Servicing	ABB
3.	Schneider make VFD Servicing	Schneider

11. Fabrication and Erection job works will be in the scope of Mill (Details attached-Annexure-D) .
- 12 .Electrical job works will be in the scope of Mill (Details attached-Annexure-E) .
13. The seasonal/DP/Retainership manpower-10 nos. per month will be provided by the Mill during off-season and the seasonal/DP/Retainership manpower-15 nos. month will be provided by the Mill during Crushing Season .
14. Scrap shifting work from plant to Scrap yard will be in the scope of party .
15. Hydra&JCB required for repair & maintenance work will be in the scope of party.
16. Boiler Stack & Effluent treatment plant of sugar mill will be operated as per CPCB/HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/HSPCB Server. Any chemicals/fertilizers etc. required to run the ETP efficiently will be provided by the mill. If any violence of pollution norms occurred due to negligence of party or any fine/penalty imposed due to failure of any sampling or violation of CPCB/HSPCB guidelines then bidder will be fully responsible for the same and will be recover by the bidder.

Operation of Plant during crushing season:

1. The scope of work for operation during the crushing season will involve all other jobs required for operation of plant including Housekeeping, cleaning of complete plant will also be in the scope of tenderer.
2. All Electrical and instrumentation work will be in the scope of Party(operation & maintenance).
3. ETP & STP operation and maintenance will be in the scope of party.
4. Operation & maintenance of Excess condensate pit complete in all respects during Crushing season and off-season will be in the scope of party.
5. Operation & maintenance of Condensate polishing unit(CPU) complete in all respects during Crushing season and off-season will be in the scope of party.

Manpower:

01. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt.The number and qualification of manpower engaged should be as per sanctioned posts finalized by the Sugar Federation, Panchkula.
02. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement given during Crushing season.
03. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.

04. The firm will be responsible for deduction of EPF/ any other such liability from their employees and HCSM will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.
05. Group insurance of the employees of the firm will be the responsibility of the Firm and HCSM will not be responsible for any claim which may be made under the workmen compensation Act and other Acts.
06. In the event of any accident/causality etc. of the employees of the firm and HCSM will not be responsible and Firm will ensure all safety measures for its employees.
07. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
08. The firm/ party shall withdraw those Employees, who are not performing the work to the satisfaction of the HCSM or for their misconduct and such employees will be replaced as may be suitable to HCSM. However, the firm will not transfer the duty of its employees without the consent of the HCSM.
09. Successful bidder shall provide man power as and when required as prequalification, age, physical norm as mentioned in by- laws/rules of Cooperative sugar Mills.

17 Manpower:

Mill will provide the existing available technical staff of Engineering and Manufacturing Department **(up to the level of Supervisory Staff except HODs,DY.HODs and Engineers/Chemists, all DCS operators)** available with the Mills. The Existing available permanent + Seasonal+ Daily wager manpower of the mills in crushing seasons for the operation of the plant. To run the Plant in smooth manner rest of remaining required staff/manpower as per Haryana Co Op Sugar Mill, Rohtak Sanctioned Staff Strength for 3500 TCD Sugar Mill Plant along with 16 MW Cogen Plant/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters. **Required manpower(Annexure – F)** is mandatory to deployed by party. **Vacant post manpower (Annexure-C)** is attached. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure satisfactory R&M work .**The Existing manpower of the mills (as per list annexed as Annexure-B) will be utilized by the party at the relevant post looking at suitability by the Party. Party ensures to engage and depute at least one Technical Head of Mechanical Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff according to run the plant efficiently in all manners comprising four shifts i.e. A, B, C & R.**

The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season every year and if any change/addition as and when takes place. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorate deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

- 18.The replacement of technical Staff/Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract, will be in the Scope of Prospective Bidder/Party.

19.PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available than Party should provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, The Haryana Co. Op Sugar Mills Ltd., Rohtak.

20.Below mentioned manpower is essential to be provided during season for contractual jobs.

Sr.No.	Work Description	Manpower Category	Manpower Required				Remarks
			Shift A	Shift B	Shift C	Shift R	
1	Donga Cleaning	Un-skilled	3	3	3	2	1 No. Tractor required
2	Cane Carrier, MRC and Mill bed coolie cleaning contract	Un-skilled	6	6	6	3	
3	Ash Handling including cleaning of scattered ash at boilers	Unskilled	4	4	4	2	02 Nos tractors with trolley including diesel required round the clock for ash shifting with in factory premises.
4.	DCS Operators at Mill house	Skilled	1	1	1	1	
5.	CPU	Skilled	2	2	2	1	
6.	DCS Operators at Turbine	Skilled	1	1	1	1	

7.	DCS Operators at Boiler	Skilled	1	1	1	1	
8.	ETP & STP Operation	skilled	1	1	1	1	
		unskilled	1	1	1	1	
9.	Plant Sanitation	unskilled		8	8	4	Mill, Boiling, Boiler & Turbine House including control rooms, All drains only inside the factory.

Note:- If any other job work arises for operation, repair & maintenance other than above mentioned contractual labour job works then it will be in the scope of party.

21. Fire-Fighting system should be maintained and operated round the clock by bidder for the safety of plant.

22. Loss of any vehicle of farmer or contractor due to the faulty functioning of the bidder manpower the same will be borne by bidder.

23. The overtime of the permanent /Seasonal/Daily paid staff in the absence of staff of O & M agencies or extra work required in the plant will be paid by the Mills management & debited to the agency duly recorded in the time office of Mill & HR department of party. The overtime will be verified from the site in charge of the agency and Engineering / Manufacturing department.

24.0 Accommodation

24.1 Accommodation for staff of the PARTY in the **Dormitory only** will be made available on free by the MILL subject to availability of the Dormitory Accommodations with the Mills. Power supply will be Chargeable.

24.2 All other arrangements for food, medical, transportation etc. will be made by the PARTY.

3.3 The mill management will be authorized to vacate the provided accommodation.

Misc.: -

01. Party shall ensure that annual expenses on account of consumption of store & spare items are as per industry norms and not more than the average cost of last three years of our own sugar mill. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.

02. Season will be started in First week of November.

03. Cane survey report will be handed over in due time.

04. Total cane to be crushed will be approx. 35 Lakhs $\pm$ 5 lakhs qtls.

05. Season may go on till month of May or till the complete crushing of cane in the assigned area.
06. Cane allotted from other mills as per MD Sugarfed or Cane Commissioner will also be considered as our own cane(if any).
07. All orders and directions as and when given by Haryana Govt.,MD Sugar federation, RCS,DC-Chairman Rohtak, BOD/BOA of Rohtak mill shall be binding and non-negotiable.

SCOPE OF WORK

Job work of Engineering Deptt. for the mill of capacity 3500 TCD alongwith 16MW Co-Gen. Plant during Off-Season 2026

(A)Mill House

1. Repair & maintenance of all pumps and valves complete in all respects will be in the scope of party.
2. Complete lighting work, power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of one Cane unloader complete in all respects including electrical and instrument work complete in all respects will be done by the party.
4. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
5. Hydraulic Accumulator Checking & Testing will be in the scope of Party.
7. Repairing of Rotary Screen, Chopper, Leveller, Pusher, Belt conveyor, Bagaescillo blower will be in the scope of party .
8. Repairing of drive and non drive end shafts ,sprockets and gearboxes of Main cane carrier, chopper, pusher, Belt conveyor, Main rake chain,IRC1,IRC2,IRC3,Bagasse elevator, Main Bagasse carrier chain will be in the scope of party .

(B)Boiler job works:-

01. Repair & maintenance of Boiler including all pressure parts, Economiser, Airheater, PRDS section, ESP will be in the scope of party.
02. Repair & maintenance of all fans, RO plant,all accessories and mountings including feed tank, deaerator tank will be in the scope of party.
03. Repair & maintenance of all pipelines, pumps complete in all respects will be in the scope of party.
04. Complete lighting work, and power supply during overhauling work will be in the scope of party.
05. Shifting of firewood in the furnace from ground will be in the scope of party.
06. All work related to Liasoning and consent to operate from pollution control board will be in the scope of party. Cleaning and maintaining all the drainage channels of the complete plant free from sludge, solid & liquid waste will be in the scope of party.
07. Any fire broke near the Plant machinery (Bagasse yard, molasses tanks, Switch yards, Boiling house etc) which can damage the machinery out will be extinguished by the party..
08. Bagasse Handling work will be in the scope of Mill.
09. RO plant Operation work, maintaining the Boiler water parameter & Cooling tower water parameters will be in the scope of Mills.
10. Hiring of KSB service Engineer will be in the scope of Mills.
11. Repair and maintenance of CPU plant complete in all respects will be in the scope of party .

(C)Turbine job works: -

1. Required manpower for Repair & maintenance of power turbine complete in all respects including Rotor, Diaphragm, relay cylinders, actuators, throttle valves, both casings, nozzle chest of turbine etc. will be scope of party.
2. Service, supervision, service engineer for Triveni turbine will be in the scope of mills.
3. Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in the scope of party.
4. Repair & maintenance of Oil coolers, oil filters, GVC and ejector work will be in the scope of party.
5. Repair & maintenance of Condenser, CEP pumps etc complete in all respects will be in the scope of party.
6. All electrical(excluding cooling tower motors), instrumentation work of the turbine, complete lighting work, power supply during overhauling work will be in the scope of party.
7. Repair & maintenance of Cooling tower, cooling tower pumps, fans, Drift eliminators work complete in all respects will be in scope of party.
8. Oil Centrifuge work will be in the scope of party.

(D)Boiling house job works:-

1. Repair & maintenance of Evaporators, FFE's, Juice heaters, Clarification house, Lime station pan station, Crystallizers, Batch type centrifugal machines, FBDS, complete in all respects will be in the scope of party.
2. The exhaust & vapour valves of Evaporator, Juice heaters, pan station & Refinery section along with the tube replacement work will be in the scope of Mill.
2. Repair & maintenance of Molasses tanks,ETP,STP complete in all respects will be in the scope of Party.
4. Complete lighting work, power supply during overhauling work will be in the scope of party.
5. All work related to Liasoning and consent to operate from pollution control board of STP & ETP will be in the scope of party.

(E)Electrical job works:-

1. Repair , maintenance & overhauling of complete electrical work of Mill House upto 120 HP motors only including Main rake & all IRC motors, BE, MBC, RBC motors, Cane carrier chain, juice pump motors, LTpanels, motor resistance & resistance panels, Caneunloader, motors & panels, troubleshooting of DC Drive panel and VFD of Mill house, Mill house crane complete in all respects will be in the scope of party.
2. Repair , maintenance &overhauling of power house including all LT & HT panels, all breakers,11kv breakers ,PCC& ACB Breakers panels, LAPT, NGR, Capacitor panels, Alternator Excitor (Radiator overhauling),AVR,GRP ,MCSP,all VFD's & panels complete in all respects will be in the scope of party .
3. Repair & maintenance of complete electrical work of Boiling house and centrifugal house including all motors of juice pumps, clarification house motors, syrup pumps, molasses pumps, sprays pumps, Trouble shooting of DC drives of Batch type centrifugal machines and VFD complete in all respects. All MCC overhauling will be in the scope of party.
4. Overhauling of Injection pump motors, Continuous& Batch type centrifugal machines motors will be in the scope of Mill.
5. Repair & maintenance of motors of ETP, STP, Molasses tanks, Disposal tank, Service tanks etc complete in all respects will be in the scope of party.
6. Repair, maintenance, overhauling& installation of all the residential lighting, streetlighting, offices lighting, lighting panels and factory lighting complete in all respects & hydra or crane is require for above job will be scope of party.
7. Cleaning, tightening and repairing of all bus duct of LT & HT panels will be in scope of party.
8. Checking, testing and installation of earth pits whenever required will be scope of party.
9. 33KV Line patrolling from GarnauthiSub station to Baniyani Sub Station and BaniyaniSub station to Sugar Mill in the scope of party.

10. Repair and maintenance of canal water pump, ETP pumps, lagoon pumps etc., electrical panels and motors at UGR will be scope in the party.
11. All electrical work of petrol pump is in the scope of party.
12. Rewinding of motors will be in the scope of Mill.
13. Operation of Canal water pumps at Canal will be in the scope of Mills.
14. Operation of UGR, service tank, lagoon & Disposal tank will be in the scope of Mill.
15. Repair & maintenance of complete boiler section motors including MCC panels, all VFD's will be in the scope of party,
16. Overhauling of ID fan motors & Feed pump motors will be in the scope of Mill.
17. Repair & maintenance & servicing of Switch yard, SF6 breaker, operation, monitoring and repair of 4 DG sets (320KVA, 35 KVA & 720 KVA) complete in all respects and Taking change-over and operation of power house the plant load during grid failure (24x7) will be in the scope of party.
18. Overhauling, servicing and oil dehydration of transformers will be in the scope of Mill.

(F) Instrumentation:-

1. Repair & maintenance of complete instrument devices including all the pressure, temperature, vacuum gauges of Boiler, Mill, Turbine, Boiling House & centrifugal house complete in all respects will be in the scope of party.
2. All Instrumentation overhauling & calibration work including pressure, temperature, vacuum, flow, PH, conductivity transmitters, all flow meters, pressure switches complete in all respects will be in the scope of party.
3. Repair & maintenance of all air compressors complete in all respects will be in the scope of party.
4. Overhauling of Air Conditioners of the control rooms will be in the scope of Party.

(G) Workshop:-

1. Repair & maintenance of workshop including lathe machines, Carpenter, blacksmith, hammerman, drill machine and shaper machine complete in all respects will be in scope of party.
2. All electrical overhauling work of the workshop complete lighting work, power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of pumps, valves & pipelines of, Service tanks, Disposal tanks complete in all respects including cleaning & water filtration system will be done by the party.
4. Jhanki preparation work will be in the scope of Party.

(H) Refinery House

1. Repair & maintenance of all Pans complete in all respects will be in the scope of party.
2. Repair & maintenance of all Crystallizers, dosing tanks complete in all respects will be in the scope of party..
3. Repair & maintenance of all pumps and valves complete in all respects will be in the scope of party..
4. All electrical, instrumentation overhauling work of the Refinery house and complete lighting work, power supply during overhauling work will be in the scope of party.
5. Overhauling of Continuous & Batch type centrifugal machines with motors and Membrane filter press complete in all respects will be in the scope of Mill.

Manufacturing Department Job works:-

1. Running contract of Laboratory supervision, Preparation of all kind reports and maintain the lab record by quality control expert for off season 2026

Details of work:

01. Prepare the RT-8C during off season
02. Maintain the Lab record during off season
03. Analysis the cane samples pre-start of the season
04. Prepare the lab chemical requirement for the season

05. Fill-up and submission of Form-D1 to FSSAI
06. Fill-up and submission of Form-V to Environment Deptt.
07. Maintain the Lab record related to HPCB & CPCB.

2. Laboratory & sugar packaging equipments repairing & calibration work for off-season 2026.

Detail of work:-

1. Calibration, overhauling, repairing and maintenance of sucroscan, polarimeter, lab crusher, Rappipoll extractor, stitching machine, Sugar pouch packaging machine and sugar bags printing machine in all respect.

General conditions:-

1. Note:- a) All the work which is not specified in the scope of Mills and necessary for repair, maintenance and operation of plant will be in the scope of party.
- b) Any other work which is required to be done from the outside workshop will be in the scope of mills provided that this work is not possible to be done in the plant.
2. All the lagging & insulation work during season and crushing season will be in the scope of Mill
3. All civil jobs including roof sheds repairing work during off season and crushing season will be in the scope of Mills.
4. Water balance & management will be in the scope of party.
5. Rewinding of all the motor during season and crushing season will be in the scope of Mill..
6. All consumable item will be in the scope of Mills.

Overhauling, Repair & Maintenance:

01. For details of work the interested party may inspect the plant for assessment of work.
02. The successful tenderer will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within two weeks of receiving final work order.
03. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
04. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
05. Any other work which is not specified but required for smooth functioning of the mill (Cleaning in the plant, drain channels, cleaning, fire broke out extinguishing, maintaining hygiene in the plant etc will also be done by the party.
06. All the overhauling repair & maintenance work of the mill should be done by the party latest by 31 October, 2026. The party shall execute the work in prescribed time frame failing which Haryana Co-operative Sugar Mill.
07. If the party fails to deliver the work allotted as per scope and the terms and conditions of the tender, HCSM shall get the work executed from any other agency at the risk and cost of the party.
08. The List of AMC's in the Mill & Party scope attached will be applicable in the Off-season .
09. AMC for following Servicing/repairing of various equipment's and machinery shall be got done by the successful bidder from the OEM (Original Equipment Manufacturer)/ OEM authorized service provider. The copies of orders placed with the OEM/OEM authorized service provider shall have to be submitted to the mills within 45 days of entering into contract/ending of the crushing seasons. The bidder shall have to provide the certificates of services/repair carried out from OEM (Original Equipment Manufacturer)/ OEM

authorized service provider atleast 20 days before the schedule of trails of the plant. In case of the failure of non-submission of work order in the schedule time, the mill management shall have at liberty to get done the left-out work from the OEM at the risk and cost of the contractor.

9.(a) List of AMC'S in party Scope

Sr. No.	Job Works	Make
1.	Safety Valve Overhauling	OEM
2.	Start up Vent Overhauling	Reputed firm
3.	Servicing of DG set	Kirloskar & Cummins
4.	SLDC Power export generation data sent to SLDC	Reputed Professional service provider.
5	Siemens make DCS System	Siemens
6.	Walky Talkie overhauling	Sanchar/Reputed firm
7.	Compressors overhauling	Kirloskar,IR& Chicago
8.	UPS Overhauling	Emerson
9.	Overhauling of Air conditioners in the control room	Voltas/Reputed firm
11.	Grader IC &Bevcon make servicing	IC &Bevcon
12.	SF6 breaker Servicing	Reputed firm
13.	Battery Charger Servicing	Reputed firm
14.	HT Breakers -11KV servicing	Reputed firm
15.	Control Valve Overhauling	MIL
16.	Bagging Machines Overhauling	Power Built/Reputed firm

9.(b) List of AMC'S in Mill Scope

Sr. No.	Job Works	Make
1.	Power turbine 16 MW Relay testing and 33 KV Grid Relay Panel Overhauling	Reputed service provider
2.	ABB make VFD Servicing	ABB
3.	Schneider make VFD Servicing	Schneider

10. Fabrication and Erection job works will be in the scope of Mill (Details attached-Annexure-D) .
11. Electrical job works will be in the scope of Mill (Details attached-Annexure-E) .
12. The seasonal/DP/Retainership manpower-5 nos. per month will be provided by the Mill during off-season and the seasonal/DP/Retainership manpower-5 nos. month will be provided by the Mill during Crushing Season .
13. Scrap shifting work from plant to Scrap yard will be in the scope of party .
14. Hydra & JCB required for repair & maintenance work will be in the scope of party.
15. Boiler Stack & Effluent treatment plant of sugar mill will be operated as per CPCB/HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/HSPCB Server. Any chemicals/fertilizers etc. required to run the ETP efficiently will be provided by the mill. If any violation of pollution norms occurred due to negligence of party or any fine/penalty imposed due to failure of any sampling or violation of CPCB/HSPCB guidelines then bidder will be fully responsible for the same and will be recovered by the bidder.

Operation of Plant during off- season:

1. ETP & STP operation and maintenance will be in the scope of party. The party will ensure the operation of ETP & STP one month before and one month after the Crushing season as per the guidelines of CPCB/HPCB.

Manpower:

01. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt. The number and qualification of manpower engaged should be as per sanctioned posts finalized by the Sugar Federation, Panchkula.
02. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement given during Crushing season.
03. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.
04. The firm will be responsible for deduction of EPF/ any other such liability from their employees and HCSM

will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.

05. Group insurance of the employees of the firm will be the responsibility of the Firm and HCSM will not be responsible for any claim which may be made under the workmen compensation Act and other Acts.
06. In the event of any accident/causality etc. of the employees of the firm and HCSM will not be responsible and Firm will ensure all safety measures for its employees.
07. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
08. The firm/ party shall withdraw those Employees, who are not performing the work to the satisfaction of the HCSM or for their misconduct and such employees will be replaced as may be suitable to HCSM. However, the firm will not transfer the duty of its employees without the consent of the HCSM.
09. Successful bidder shall provide man power as and when required as prequalification, age, physical norm as mentioned in by- laws/rules of Cooperative sugar Mills.
10. Mill will provide the existing available technical staff of Engineering and Manufacturing Department (up to the level of Supervisory Staff except HODs, DY.HODs and Engineers/Chemists, all DCS operators) available with the Mills. The Existing available permanent + Seasonal+ Daily wage manpower of the mills in crushing seasons for the operation of the plant. To run the Plant in smooth manner rest of remaining required staff/manpower as per Haryana Co Op Sugar Mill, Rohtak Sanctioned Staff Strength for 3500 TCD Sugar Mill Plant along with 16 MW Cogen Plant/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters. Required manpower (Annexure – F) is mandatory to be deployed by party. Vacant post manpower (Annexure-C) is attached. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure satisfactory R&M work. The Existing manpower of the mills (as per list annexed as Annexure-B) will be utilized by the party at the relevant post looking at suitability by the Party. Party ensures to engage and depute at least one Technical Head of Mechanical Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff according to run the plant efficiently in all manners comprising four shifts i.e. A, B, C & R.

The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season every year and if any change/addition as and when takes place. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorate deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

16. The replacement of technical Staff/Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract, will be in the Scope of Prospective Bidder/Party.
17. PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available then Party should provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, The Haryana Co. Op Sugar Mills Ltd., Rohtak.

Note:- If any other job work arises for operation, repair & maintenance other than above

mentioned contractual labour job works then it will be in the scope of party.

18. Fire-Fighting system should be maintained and operated round the clock by bidder for the safety of plant.
19. Loss of any vehicle of farmer or contractor due to the faulty functioning of the bidder manpower the same will be borne by bidder.
21. The overtime of the permanent /Seasonal/Daily paid staff in the absence of staff of O & M agencies or extra work required in the plant will be paid by the Mills management & debited to the agency duly recorded in the time office of Mill & HR department of party. The overtime will be verified from the site in charge of the agency and Engineering / Manufacturing department.

22.0 Accommodation

- 22.1 Accommodation for staff of the PARTY in the **Dormitory only** will be made available on free by the MILL subject to availability of the Dormitory Accommodations with the Mills. Power supply will be Chargeable.
- 22.2 All other arrangements for food, medical, transportation etc. will be made by the PARTY.
- 22.3 The mill management will be authorized to vacate the provided accommodation.

Misc.: -

01. Party shall ensure that annual expenses on account of consumption of store & spare items are as per industry norms and not more than the average cost of last three years of our own sugar mill. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.
02. Season will be started in 2nd week of November.
03. Cane survey report will be handed over in due time.
04. Total cane to be crushed will be approx. 35 Lakhs $\pm$ 5 lakhs qtls.
05. Season may go on till month of May or till the complete crushing of cane in the assigned area.
06. Cane allotted from other mills as per MD Sugarfed or Cane Commissioner will also be considered as our own cane(if any).
07. All orders and directions as and when given by Haryana Govt., MD Sugar federation, RCS, DC-Chairman Rohtak, BOD/BOA of Rohtak mill shall be binding and non-negotiable.

SCOPE OF WORK

Job work of Engineering Deptt. for the mill of capacity 3500 TCD alongwith 16MW Co-Gen. Plant during Off-Season 2027

(A) Mill House

1. Repair & maintenance of all Mills complete in all respects will be in scope of party.
2. Repair & maintenance of all Inter rake carriers, MCC, Main Rake, Belt conveyor, Bagasse elevator, MBC and RBC complete in all respects will be in scope of party.
3. Repair & maintenance of all pumps and valves complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Millhouse. Complete lighting work power supply during overhauling work will be in the scope of party.
6. Repair & maintenance work of all Cane unloaders complete in all respects including electrical and instrument work complete in all respects will be done by the party.
7. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
8. Hydraulic Accumulator Checking & Testing will be in the scope of Party.
9. Main Cane carrier Cleaning and Juice bed cleaning work will be in the scope of Party.

(B) Boiler job works:-

01. Repair & maintenance of Boiler including all pressure parts, Economiser, Airheater, PRD Section, ESP including Travelling grate work will be in scope of party.
02. Repair & maintenance of all fans, ash handling system, RO plant, bagasse handling section, all accessories and mountings including feed tank, deaerator tanks will be in scope of party.
03. Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in scope of party.
04. All electrical, instrumentation overhauling work of the Boiler, complete lighting work, and power supply during overhauling work will be in the scope of party will be in scope of party.
05. Shifting of firewood in the furnace from ground will be in the scope of party will be in scope of party.
06. All work related to Liaisoning and consent to operate from pollution control board will be in the scope of party. Cleaning and maintaining all the drainage channels of the complete plant free from sludge, solid & liquid waste will be in the scope of party will be in scope of party.
07. Any fire broke near the Plant machinery (Bagasse yard, molasses tanks, Switch yards, Boiling house etc) which can damage the machinery out will be extinguished by the party will be in scope of party.
08. Repair, maintenance, cleaning and trial of ESP will be in scope of party.
09. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
10. Internal & External Cleaning job work will be in the scope of Party.
11. RO plant Operation work, maintaining the Boiler water parameter & Cooling tower water parameters will be in the scope of Mills.
12. Hiring of Service Engineer for KSB make pumps will be in the scope of Mill.
13. Repair and maintenance of CPU will be in the scope of party.

(C)Turbine job works: -

1. Required manpower for Repair & maintenance of power turbine complete in all respects including Rotor, Diaphragm, relay cylinders, actuators, throttle valves, both casings, nozzle chest of turbine etc. will be scope of party.
2. Service, supervision, service engineer for Triveni turbine will be in the scope of mills.
3. Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in scope of party.
4. Repair & maintenance of Oil coolers, oil filters, GVC and ejector work will be in the scope of party.
5. Repair & maintenance of Condenser, CEP etc complete in all respects will be in scope of party.
6. All electrical(including cooling tower), instrumentation work of the turbine, complete lighting work, power supply during overhauling work will be in the scope of party.
7. Repair & maintenance of Cooling tower pumps, fans, Drift eliminators work complete in all respects will be in scope of party.
8. All civil jobs including roof sheds repairing work will be in the scope of Mills.
9. Oil Centrifuge work and Sandblasting work will be in the scope of party.

(D)Boiling house job works:-

1. Repair & maintenance of Evaporators, FFE's, Juice heaters, Clarification house, Lime station pan station, Crystallizers, Continuous Centrifugal machines, Batch type centrifugal machines, belt conveyor, FBDS, Grader and Sugar handling system complete in all respects will be in scope of party.
2. Repair & maintenance of Injection section, spray pump section, spray channel complete in all respects will be in scope of party.
3. Repair & maintenance of Molasses tanks, ETP, STP complete in all respects will be in scope of party.
4. All electrical, instrumentation overhauling work of the Boiling house & Centrifugal house complete lighting work, power supply during overhauling work will be in the scope of party.
5. All work related to Liasoning and consent to operate from pollution control board of STP & ETP will be in the scope of party.
6. Repairing of Exhaust and vapour valves of Evaporators, Juice heaters, Pan station, Refinery section alongwith Tube replacement work will be in the scope of Mill.

(E)Electrical job works:-

1. Repair , maintenance & overhauling of complete electrical work of Mill House including all MCC, DC drives, fibrizer motors, Main rake & all IRC motors, BE, MBC, RBC motors, Cane carrier chain, Chopper & leveller motors, LT panels, motor resistance & resistance panels, Cane unloader, motors & panels, Mill house crane complete in all respects will be in scope of party.
2. Repair , maintenance & overhauling of power house including all LT & HT panels, all breakers, 11kv breakers ,PCC & ACB Breakers panels, transformers, LAPT, NGR, Capacitor panels, Alternators Excitor (Radiator overhauling), AVR, GRP ,MCSP, all VFD' s & panels complete in all respects will be in scope of party.
3. Repair & maintenance of complete electrical work of Boiling house and centrifugal house including all motors of juice pumps, clarification house motors, syrup pumps, molasses pumps, injection & sprays pumps, all MCC, DC drives of Batch type centrifugal machines will be in scope of party.
4. Repair & maintenance & servicing of Switch yard, SF6 breaker, operation, monitoring and repair of 4 DG sets (320KVA, 35 KVA & 720 KVA) complete in all respects. Taking change-over and operation of power house the plant load during grid failure(24x7) will be in scope of party.
5. Repair & maintenance of motors of ETP, STP, Molasses tanks, Disposal tank, Service tanks etc complete in all respects will be in scope of party.
6. All civil jobs including roof sheds of power house & DG set roof repairing work will be in the scope of Mills.
7. Repair , maintenance, overhauling & installation of all the residential lighting, street lighting, offices lighting, lighting panels and factory lighting complete in all respects & hydra or crane is require for above job will be scope of party.
8. Cleaning, tightening and repairing of all bus duct of LT & HT panels will be in scope of party.

9. Checking, testing and installation of earth pits whenever required will be scope of party.
10. 33KV Line patrolling from Garnauthi Sub station to Baniyani Sub Station and BaniyaniSub station to Sugar Mill in the scope of party.
11. Repair and maintenance of canal water pump, ETP pumps, lagoon pumps etc., electrical panels and motors at UGR will be scope in the party.
12. All electrical work of petrol pump is in the scope of party.
13. Rewinding of motors will be in the scope of Mill.
14. Operation of Canal water pumps at Canal will be in the scope of Mills.
15. Operation of UGR,service tank, lagoon& Disposal tank will be in the scope of Mill .
16. Repair and maintenance of all motors,MCC,VFD of boiler section complete in all respects will be in the scope of Party .
- 17.Overhauling,Servicing and oil dehydration of Transformers will be in the scope of Mill.

(F)Instrumentation:-

1. Repair & maintenance of complete instrument devices including all the pressure,temperature,vacuum gauges of Boiler,Mill,Turbine,Boiling House & centrifugal house complete in all respects will be in scope of party.
2. All Instrumentation overhauling & calibration work including pressure ,temperature,vacuum,flow ,PH ,conductivitytransmitters,allflowmeters,pressure switches complete in all respects will be in scope of party.
3. Repair & maintenance of all air compressors complete in all respects will be in scope of party.
4. Overhauling of Air Conditioners of the control rooms will be in the scope of Party.

(G) Workshop:-

1. Repair & maintenance of workshop including lathe machines,Carpenter,blacksmith,hammerman,drill machine and shaper machine complete in all respects will be in scope of party.
2. All electrical overhauling work of the workshop complete lighting work,power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of pumps,valves& pipelines of,Service tanks,Disposal tanks complete in all respects including cleaning & water filtration system will be done by the party.
4. Jhanki preparation work will be in the scope of Party.

(H)Refinery House

1. Repair & maintenance of all Pans and Centrifugal machines complete in all respects will be in scope of party
2. Repair & maintenance of all Crystallizers,dosing tanks complete in all respects will be in scope of party.
3. Repair & maintenance of all pumps and valves complete in all respects will be in scope of party.
4. All electrical,instrumentation overhauling work of the Refinery house and complete lighting work,power supply during overhauling work will be in the scope of party.

Manufacturing Department Job works:-

1. Running contract of Laboratory supervision, Preparation of all kind reports and maintain the lab record by quality control expert for off season 2027

Details of work:

01. Prepare the RT-8C during off season
- 02 Maintain the Lab record during off season
- 03 Analysis the cane samples pre-start of the season
04. Prepare the lab chemical requirement for the season
- 05 Fill-up and submission of Form-D1 to FSSAI
- 06 Fill-up and submission of Form-V to Environment Deptt.
07. Maintain the Lab record related to HPCB & CPCB.

2. Tubes cleaning work of all juice heaters, Evaporator bodies & Pans for off season 2027

Details of work:-

1. For Mechanical cleaning
- b) Evaporator

S. N.	Particular	Running	H.S.(m2)	No. Of Tubes (Apprx)
1	Semi kestner	1 st effect	2500	4712
2	2100 A	3 rd effect	2100	6284
3	2100B	3 rd effect	2100	6284
4	1600 body	4 th effect	1600	6027
5	1000 body	4 th effect	1000	3800
6	600 body	5 th effect	600	2264
7	500 body	5 th effect	500	1900
8	FFE I	1 st / 2 nd effect	3200	2790
9	FFE II	2 nd effect	3200	2790

b) Juice heater

S.N.	Particular	H.S.(M2)	No. Of Tubes
1	Raw juice heater	220	432
2	Defecated juice heater (3 nos.)	250	480 each
3	Clear juice heater	300	560
4	Vapour line juice heater (old)	220	432
5	Vapour line juice heater (new)	300	576
6	Condensate heater (03 nos.)	110	200 each

c) Pan

S.N.	Particular	H.S.(M2)	No. Of Tubes
1	Batch pan no.1	370	1685
2	Batch pan no. 2,3,4,6	280	1076 each
3	B Continuous pan	500	2186
4	C Continuous pan	540	2328
5	Refinery pan no.1	185	700
6	Refinery pan no.2 &3	232	886 each

d. During Off Season

S.N.	Particular
1	To clear the jammed tubes of FFE having 10 meter tube length after tube cleaning

03. Inside cleaning & painting work of boiling house (Raw & Refinery house) equipments and inside cleaning & white washing work of ETP and spray pond off season-2027

Detail of work-

1. Clarification House

Inside metal cleaning & painting of juice tanks, water tanks, filtrate tanks, juice defecator and its connecting pipe lines, RVF and its connecting pipe lines, rotary vacuum filter, clarifier, lime station and its connecting pipe lines.

2. Boling house (Evaporator & pan station)

Inside metal cleaning & painting of all molasses and syrup tanks, tubes plates & wall & wall cleaning of all evaporator bodies and pans, all save-all, all juice heaters covers and vacuum crystallizers.

3. Centrifugal House & drier house

Inside metal cleaning & painting of all C/F machines, pug mills, magma, gutter, molasses and water tanks, FBDS, hopper and sugar grader with 4 nos Sugar Bins.

4. Refinery House

Inside cleaning of all pans, crystallizers, pug mill, MCS, Raw melter, and all storage tanks.

5. Complete cleaning of effluent treatment plant including all inlet and outlet drains, all tanks of effluent plant with both lagoons pit painting and white washing just after cleaning is over.

6. Complete cleaning of both filter (Duel media filter & carbon filter) & also fill after cleaning of this media in both filters.

7. Complete cleaning of all sludge beds gravels and also fill after cleaning in all sludge beds.
8. Complete cleaning and white washing work of spray pond, spray pond header injection channel and injection header in all respect.
9. Internal cleaning and white washing painting work of CPU unit with condensate receiving tank complete in all respect.

04. Laboratory & sugar packaging equipments repairing & calibration work for off-season 2027.

Detail of work:-

1. Calibration, overhauling, repairing and maintenance of sucroscan, polarimeter, lab crusher, Rappipoll extractor, stitching machine, Sugar pouch packaging machine and sugar bags printing machine in all respect.

5. Sugar scraping and washing work after crushing season:

1. Scrapping of sugar from crystalizers, pug mill, magma, machines, gutter, FBDS of Raw and refinery house and collect all scrapping material in crytallizer.
2. Cleaning of lime station and remove all remaining grit from station.
3. Washing of all equipments of boiling house with all pits & floor.

After washing all drain should be clear up to ETP and also removal of sludge to be shifted as per the direction of Mfg. Dept

General conditions:-

1. Note:- a) All the work which is not specified in the scope of Mills and necessary for repair, maintenance and operation of plant will be in the scope of party.
- b) Any other work which is required to be done from the outside workshop will be in the scope of mills provided that this work is not possible to be done in the plant.
2. All the lagging & insulation work during season and crushing season will be in the scope of Mill
3. All civil jobs including roof sheds repairing work during off season and crushing season will be in the scope of Mills.
4. Water balance & management will be in the scope of party.
5. Rewinding of all the motor during season and crushing season will be in the scope of Mill..
6. All consumable item will be in the scope of Mills.

Overhauling, Repair & Maintenance:

01. For details of work the interested party may inspect the plant for assessment of work.
02. The successful tenderer will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within two weeks of receiving final work order.
03. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
04. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
05. Any other work which is not specified but required for smooth functioning of the mill (Cleaning in the plant, drain channels, cleaning, fire broke out extinguishing, maintaining hygiene in the plant etc) will also be done by the party.
06. All the overhauling repair & maintenance work of the mill should be done by the party latest by mid of Oct, 2027. The party shall execute the work in prescribed time frame failing which Haryana Co-operative Sugar Mill.

07. If the party fails to deliver the work allotted as per scope and the terms and conditions of the tender, HCSM shall get the work executed from any other agency at the risk and cost of the party.
08. The List of AMC's in the Mill & Party scope attached will be applicable in the Off-season .
09. AMC for following Servicing/repairing of various equipment's and machinery shall be got done by the successful bidder from the OEM (Original Equipment Manufacturer)/ OEM authorized service provider. The copies of orders placed with the OEM/OEM authorized service provider shall have to be submitted to the mills within 45 days of entering into contract/ending of the crushing seasons. The bidder shall have to provide the certificates of services/repair carried out from OEM (Original Equipment Manufacturer)/ OEM authorized service provider atleast 20 days before the schedule of trails of the plant. In case of the failure of non-submission of work order in the schedule time, the mill management shall have at liberty to get done the left-out work from the OEM at the risk and cost of the contractor.

10.(a) List of AMC'S in party Scope

Sr. No.	Job Works	Make
1.	Safety Valve Overhauling	OEM
2.	Start up Vent Overhauling	Reputed firm
3.	Servicing of DG set	Kirloskar & Cummins
4.	SLDC Power export generation data sent to SLDC	Reputed Professional service provider.
5	Siemens make DCS System	Siemens
6.	Walky Talkie overhauling	Sanchar/Reputed firm
7.	Compressors overhauling	Kirloskar,IR& Chicago
8.	UPS Overhauling	Emerson
9.	Overhauling of Air conditioners in the control room	Voltas/Reputed firm
10.	Grader IC &Bevcon make servicing	IC &Bevcon
11.	SF6 breaker Servicing	Reputed firm
12.	Battery Charger Servicing	Reputed firm
13.	HT Breakers -11KV servicing	Reputed firm
14.	Control Valve Overhauling	MIL
15.	Bagging Machines Overhauling	Power Built/Reputed firm

10.(b) List of AMC'S in Mill Scope

Sr. No.	Job Works	Make
1	Power turbine 16 MW Relay testing and 33 KV Grid Relay Panel Overhauling	Reputed service provider
2	ABB make VFD Servicing	ABB
3	Schneider make VFD Servicing	Schneider

11. Fabrication and Erection job works will be in the scope of Mill (Details attached-Annexure-D) .
12. Electrical job works will be in the scope of Mill (Details attached-Annexure-E) .
13. The seasonal/DP/Retainership manpower-10 nos. per month will be provided by the Mill during off-season and the seasonal/DP/Retainership manpower-15 nos. month will be provided by the Mill during Crushing Season .
14. Scrap shifting work from plant to Scrap yard will be in the scope of party .
15. Hydra & JCB required for repair & maintenance work will be in the scope of party.
16. Boiler Stack & Effluent treatment plant of sugar mill will be operated as per CPCB/HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/HSPCB Server. Any chemicals/fertilizers etc. required to run the ETP efficiently will be provided by the mill. If any violence of pollution norms occurred due to negligence of party or any fine/penalty imposed due to failure of any sampling or violation of CPCB/HSPCB guidelines then bidder will be fully responsible for the same and will be recover by the bidder.

Operation of Plant during Off- season:

01. ETP & STP operation and maintenance will be in the scope of party. The party will ensure the operation of ETP & STP one month before and one month after the Crushing season as per the guidelines of CPCB/HPCB.

Manpower:

01. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt. The number and qualification of manpower engaged should be as per sanctioned posts finalized by the Sugar Federation, Panchkula.
02. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement given during Crushing season.
03. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.
04. The firm will be responsible for deduction of EPF/ any other such liability from their employees and HCSM will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.
05. Group insurance of the employees of the firm will be the responsibility of the Firm and HCSM will not be

- responsible for any claim which may be made under the workmen compensation Act and other Acts.
06. In the event of any accident/causality etc. of the employees of the firm and HCSM will not be responsible and Firm will ensure all safety measures for its employees.
 07. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
 08. The firm/ party shall withdraw those Employees, who are not performing the work to the satisfaction of the HCSM or for their misconduct and such employees will be replaced as may be suitable to HCSM. However, the firm will not transfer the duty of its employees without the consent of the HCSM.
 09. Successful bidder shall provide man power as and when required as prequalification, age, physical norm as mentioned in by- laws/rules of Cooperative sugar Mills.

17. **Manpower:-**Mill will provide the existing available technical staff of Engineering and Manufacturing Department (up to the level of Supervisory Staff except HODs,DY.HODs and Engineers/Chemists, all DCS operators)available with the Mills. The Existing available permanent + Seasonal+ Daily wagger manpower of the mills in crushing seasons for the operation of the plant. To run the Plant in smooth manner rest of remaining required staff/manpower as per Haryana Co Op Sugar Mill, Rohtak Sanctioned Staff Strength for 3500 TCD Sugar Mill Plant along with 16 MW Cogen Plant/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters. Required manpower (Annexure – F)is mandatory to deployed by party. Vacant post manpower (Annexure-C)is attached. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure satisfactory R&M work . The Existing manpower of the mills (as per list annexed as Annexure-B) will be utilized by the party at the relevant post looking at suitability by the Party. Party ensures to engage and depute at least one Technical Head of Mechanical Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff according to run the plant efficiently in all manners comprising four shifts i.e. A, B, C & R.

The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season every year and if any change/addition as and when takes place. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorate deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

- 18.The replacement of technical Staff /Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract, will be in the Scope of Prospective Bidder/Party.
- 19 PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available than Party should provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, The Haryana Co. Op Sugar Mills Ltd., Rohtak.

Note:- If any other job work arises for operation, repair & maintenance other than above mentioned contractual labour job works then it will be in the scope of party.

20. Fire-Fighting system should be maintained and operated round the clock by bidder for the safety of plant.

21. Loss of any vehicle of farmer or contractor due to the faulty functioning of the biddermanpower the same will be borne by bidder.

22.0 Accommodation

22.1 Accommodation for staff of the PARTY in the **Dormitory only** will be made available on free by the MILLS subject to availability of the Dormitory Accommodations with the Mills. Power supply will be Chargeable.

22.2 All other arrangements for food, medical, transportation etc. will be made by the PARTY.

22.3 The mill management will be authorized to vacate the provided accommodation.

Misc.: -

01. Party shall ensure that annual expenses on account of consumption of store & spare items are as per industry norms and not more than the average cost of last three years of our own sugar mill. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.
02. Season will be started in First week of November.
03. Cane survey report will be handed over in due time.
04. Total cane to be crushed will be approx. 35 Lakhs $\pm$ 5 lakhs qtls.
05. Season may go on till month of May or till the complete crushing of cane in the assigned area.
06. Cane allotted from other mills as per MD Sugarfed or Cane Commissioner will also be considered as our own cane (if any).
07. All orders and directions as and when given by Haryana Govt., MD Sugar federation, RCS, DC-Chairman Rohtak, BOD/BOA of Rohtak mill shall be binding and non-negotiable.

SCOPE OF WORK

Job work of Engineering Deptt. for the mill of capacity 3500 TCD alongwith 16MW Co-Gen. Plant during Off-Season 2026

(A) Mill House

1. Repair & maintenance of all pumps and valves complete in all respects will be in the scope of party.
2. Complete lighting work, power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of one Cane unloader complete in all respects including electrical and instrument work complete in all respects will be done by the party.
4. UT testing, Thickness monitoring & Site Balancing job work will be in the scope of Party.
5. Hydraulic Accumulator Checking & Testing will be in the scope of Party.
7. Repairing of Rotary Screen, Chopper, Leveller, Pusher, Belt conveyor, Bagaescillo blower will be in the scope of party.
8. Repairing of drive and non drive end shafts, sprockets and gearboxes of Main cane carrier, chopper, pusher, Belt conveyor, Main rake chain, IRC1, IRC2, IRC3, Bagasse elevator, Main Bagasse carrier chain will be in the scope of party.

(B)Boiler job works:-

12. Repair & maintenance of Boiler including all pressure parts, Economiser, Airheater, PRDS section, ESP will be in the scope of party.
13. Repair & maintenance of all fans,ROplant,all accessories and mountings including feed tank,deaerator tank will be in the scope of party.
14. Repair & maintenance of all pipelines,pumps complete in all respects will be in the scope of party.
15. Complete lighting work,and power supply during overhauling work will be in the scope of party.
16. Shifting of firewood in the furnace from ground will be in the scope of party.
17. All work related to Liasoning and consent to operate from pollution control board will be in the scope of party.Cleaning and maintaining all the drainage channels of the complete plant free from sludge,solid& liquid waste will be in the scope of party.
18. Any fire broke near the Plant machinery (Bagasse yard, molasses tanks, Switch yards,Boiling house etc) which can damage the machinery out will be extinguished by the party..
19. Bagasse Handling work will be in the scope of Mill.
20. RO plant Operation work, maintaining the Boiler water parameter & Cooling tower water parameters will be in the scope of Mills.
21. Hiring of KSB service Engineer will be in the scope of Mills.
22. Repair and maintenance of CPU plant complete in all respects will be in the scope of party .

(C)Turbine job works: -

1. Required manpower for Repair & maintenance of power turbine complete in all respects including Rotor, Diaphragm, relay cylinders, actuators, throttle valves, both casings, nozzle chest of turbine etc. will be scope of party.
2. Service, supervision, service engineer for Triveni turbine will be in the scope of mills.
3. Repair & maintenance of all valves, pipelines, pumps complete in all respects will be in the scope of party.
4. Repair & maintenance of Oil coolers,oil filters, GVC and ejector work will be in the scope of party.
5. Repair & maintenance of Condenser,CEP pumps etc complete in all respects will be in the scope of party.
6. All electrical(excluding cooling tower motors), instrumentation work of the turbine,complete lighting work,power supply during overhauling work will be in the scope of party.
7. Repair & maintenance of Cooling tower, cooling tower pumps, fans, Drift eliminators work complete in all respects will be in scope of party.
8. Oil Centrifuge work will be in the scope of party.

(D)Boiling house job works:-

1. Repair & maintenance of Evaporators, FFE's, Juice heaters, Clarification house, Lime station pan station, Crystallizers, Batch type centrifugal machines, FBDS, complete in all respects will be in the scope of party.
2. The exhaust & vapour valves of Evaporator, Juice heaters, pan station & Refinery section along with the tube replacement work will be in the scope of Mill.
2. Repair & maintenance of Molasses tanks,ETP,STP complete in all respects will be in the scope of Party.
4. Complete lighting work,power supply during overhauling work will be in the scope of party.
5. All work related to Liasoning and consent to operate from pollution control board of STP & ETP will be in the scope of party.

(E)Electrical job works:-

1. Repair , maintenance & overhauling of complete electrical work of Mill House upto 120 HP motors only including Main rake & all IRC motors,BE,MBC,RBCmotors,Cane carrier chain,juice pump motors,LTpanels,,motor resistance &resistance panels,Caneunloader,motors&panels,troubleshooting of DC Drive panel and VFD of Mill house,Mill house crane complete in all respects will be in the scope of party.
2. Repair , maintenance &overhauling of power house including all LT & HT panels, all breakers,11kv breakers ,PCC& ACB Breakers panels,LAPT,NGR,Capacitorpanels,Alternator Excitor (Radiator overhauling),AVR,GRP ,MCSP,all VFD' s & panels complete in all respects will be in the scope of party .
3. Repair & maintenance of complete electrical work of Boiling house and centrifugal house including all motors of juice pumps,clarification house motors,syruppumps,molassesumps,spraysumps,Trouble shooting of DC drives of Batch type centrifugal machines and VFD complete in all respects. All MCC overhauling will be in the scope of party.
4. Overhauling of Injection pump motors,Continuous& Batch type centrifugal machines motors will be in the scope of Mill.
5. Repair & maintenance of motors of ETP,STP,Molassestanks,Disposaltank,Service tanks etc complete in all respects will be in the scope of party.
6. Repair, maintenance, overhauling& installation of all the residential lighting,streetighting,offices lighting, lighting panels and factory lighting complete in all respects & hydra or crane is require for above job will be scope of party.
7. Cleaning,tightening and repairing of all bus duct of LT & HT panels will be in scope of party.
8. Checking, testing and installation of earth pits whenever required will be scope of party.
9. 33KV Line patrolling from GarnauthiSub station to Baniyani Sub Station and BaniyaniSub station to Sugar Mill in the scope of party.
10. Repair and maintenance of canal water pump, ETP pumps, lagoon pumps etc., electrical panels and motors at UGR will be scope in the party.
11. All electrical work of petrol pump is in the scope of party.
12. Rewinding of motors will be in the scope of Mill.
13. Operation of Canal water pumps at Canal will be in the scope of Mills.
14. Operation of UGR,service tank, lagoon& Disposal tank will be in the scope of Mill .
- 15.Repair & maintenance of complete boiler section motors including MCC panels,all VFD's will be in the scope of party,
- 16.Overhauling of ID fan motors & Feed pump motors will be in the scope of Mill.
17. Repair & maintenance & servicing of Switch yard, SF6 breaker,operation,monitoring and repair of 4 DG sets (320KVA, 35 KVA& 720 KVA) complete in all respects and Taking change-over and operation of power house the plant load during grid failure(24x7) will be in the scope of party.
- 18.Overhauling,servicing and oil dehydration of transformers will be in the scope of Mill.

(F)Instrumentation:-

1. Repair & maintenance of complete instrument devices including all the pressure,temperature,vacuum gauges of Boiler,Mill,Turbine,Boiling House & centrifugal house complete in all respects will be in the scope of party.
2. All Instrumentation overhauling & calibration work including pressure ,temperature,vacuum,flow ,PH ,conductivitytransmitters,all flow meters,pressure switches complete in all respects will be in the scope of party.
3. Repair & maintenance of all air compressors complete in all respects will be in the scope of party.
4. Overhauling of Air Conditioners of the control rooms will be in the scope of Party.

(G) Workshop:-

1. Repair & maintenance of workshop including lathe machines,Carpenter, blacksmith, hammerman,drill machine and shaper machine complete in all respects will be in scope of party.

2. All electrical overhauling work of the workshop complete lighting work, power supply during overhauling work will be in the scope of party.
3. Repair & maintenance work of pumps, valves & pipelines of, Service tanks, Disposal tanks complete in all respects including cleaning & water filtration system will be done by the party.
4. Jhanki preparation work will be in the scope of Party.

(H) Refinery House

1. Repair & maintenance of all Pans complete in all respects will be in the scope of party.
2. Repair & maintenance of all Crystallizers, dosing tanks complete in all respects will be in the scope of party.
3. Repair & maintenance of all pumps and valves complete in all respects will be in the scope of party..
4. All electrical, instrumentation overhauling work of the Refinery house and complete lighting work, power supply during overhauling work will be in the scope of party.
5. Overhauling of Continuous & Batch type centrifugal machines with motors and Membrane filter press complete in all respects will be in the scope of Mill.

Manufacturing Department Job works:-

1. Running contract of Laboratory supervision, Preparation of all kind reports and maintain the lab record by quality control expert for off season 2026

Details of work:

01. Prepare the RT-8C during off season
02. Maintain the Lab record during off season
03. Analysis the cane samples pre-start of the season
04. Prepare the lab chemical requirement for the season
05. Fill-up and submission of Form-D1 to FSSAI
06. Fill-up and submission of Form-V to Environment Deptt.
07. Maintain the Lab record related to HPCB & CPCB.

3. Laboratory & sugar packaging equipments repairing & calibration work for off-season 2026.

Detail of work:-

1. Calibration, overhauling, repairing and maintenance of sucroscan, polarimeter, lab crusher, Rappipoll extractor, stitching machine, Sugar pouch packaging machine and sugar bags printing machine in all respect.

General conditions:-

1. Note:- a) All the work which is not specified in the scope of Mills and necessary for repair, maintenance and operation of plant will be in the scope of party.
- b) Any other work which is required to be done from the outside workshop will be in the scope of mills provided that this work is not possible to be done in the plant.
2. All the lagging & insulation work during season and crushing season will be in the scope of Mill
3. All civil jobs including roof sheds repairing work during off season and crushing season will be in the scope of Mills.
4. Water balance & management will be in the scope of party.
5. Rewinding of all the motor during season and crushing season will be in the scope of Mill..
6. All consumable item will be in the scope of Mills.

Overhauling, Repair & Maintenance:

01. For details of work the interested party may inspect the plant for assessment of work.
02. The successful tenderer will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within two weeks of receiving final work order.

03. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
04. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
05. Any other work which is not specified but required for smooth functioning of the mill (Cleaning in the plant, drain channels, cleaning, fire broke out extinguishing, maintaining hygiene in the plant etc will also be done by the party.
06. All the overhauling repair & maintenance work of the mill should be done by the party latest by 31 October, 2026. The party shall execute the work in prescribed time frame failing which Haryana Co-operative Sugar Mill.
07. If the party fails to deliver the work allotted as per scope and the terms and conditions of the tender, HCSM shall get the work executed from any other agency at the risk and cost of the party.
08. The List of AMC's in the Mill & Party scope attached will be applicable in the Off-season .
09. AMC for following Servicing/repairing of various equipment's and machinery shall be got done by the successful bidder from the OEM (Original Equipment Manufacturer)/ OEM authorized service provider. The copies of orders placed with the OEM/OEM authorized service provider shall have to be submitted to the mills within 45 days of entering into contract/ending of the crushing seasons. The bidder shall have to provide the certificates of services/repair carried out from OEM (Original Equipment Manufacturer)/ OEM authorized service provider atleast 20 days before the schedule of trials of the plant. In case of the failure of non-submission of work order in the schedule time, the mill management shall have at liberty to get done the left-out work from the OEM at the risk and cost of the contractor.

9.(a) List of AMC'S in party Scope

Sr. No.	Job Works	Make
1.	Safety Valve Overhauling	OEM
2.	Start up Vent Overhauling	Reputed firm
3.	Servicing of DG set	Kirloskar & Cummins
4.	SLDC Power export generation data sent to SLDC	Reputed Professional service provider.
5	Siemens make DCS System	Siemens
6.	Walky Talkie overhauling	Sanchar/Reputed firm
7.	Compressors overhauling	Kirloskar, IR& Chicago
8.	UPS Overhauling	Emerson
9.	Overhauling of Air conditioners in the control room	Voltas/Reputed firm

11.	Grader IC & Bevcon make servicing	IC & Bevcon
12.	SF6 breaker Servicing	Reputed firm
13.	Battery Charger Servicing	Reputed firm
14.	HT Breakers -11KV servicing	Reputed firm
15.	Control Valve Overhauling	MIL
16.	Bagging Machines Overhauling	Power Built/Reputed firm

9.(b) List of AMC'S in Mill Scope

Sr. No.	Job Works	Make
1.	Power turbine 16 MW Relay testing and 33 KV Grid Relay Panel Overhauling	Reputed service provider
2.	ABB make VFD Servicing	ABB
3.	Schneider make VFD Servicing	Schneider

16. Fabrication and Erection job works will be in the scope of Mill (Details attached-Annexure-D) .
17. Electrical job works will be in the scope of Mill (Details attached-Annexure-E) .
18. The seasonal/DP/Retainership manpower-5 nos. per month will be provided by the Mill during off-season and the seasonal/DP/Retainership manpower-5 nos. month will be provided by the Mill during Crushing Season .
19. Scrap shifting work from plant to Scrap yard will be in the scope of party .
20. Hydra&JCB required for repair & maintenance work will be in the scope of party.
21. Boiler Stack & Effluent treatment plant of sugar mill will be operated as per CPCB/HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/HSPCB Server. Any chemicals/fertilizers etc. required to run the ETP efficiently will be provided by the mill. If any violence of pollution norms occurred due to negligence of party or any fine/penalty imposed due to failure of any sampling or violation of CPCB/HSPCB guidelines then bidder will be fully responsible for the same and will be recover by the bidder.

Operation of Plant during off- season:

1. ETP & STP operation and maintenance will be in the scope of party. The party will ensure the operation of ETP & STP one month before and one month after the Crushing season as per the guidelines of CPCB/HPCB.

Manpower:

1. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt. The number and qualification of manpower engaged should be as per sanctioned posts finalized by the Sugar Federation, Panchkula.
2. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement given during Crushing season.
3. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.
4. The firm will be responsible for deduction of EPF/ any other such liability from their employees and HCSM will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.
5. Group insurance of the employees of the firm will be the responsibility of the Firm and HCSM will not be responsible for any claim which may be made under the workmen compensation Act and other Acts.
6. In the event of any accident/causality etc. of the employees of the firm and HCSM will not be responsible and Firm will ensure all safety measures for its employees.
7. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
8. The firm/ party shall withdraw those Employees, who are not performing the work to the satisfaction of the HCSM or for their misconduct and such employees will be replaced as may be suitable to HCSM. However, the firm will not transfer the duty of its employees without the consent of the HCSM.
9. Successful bidder shall provide man power as and when required as prequalification, age, physical norm as mentioned in by- laws/rules of Cooperative sugar Mills.
10. Mill will provide the existing available technical staff of Engineering and Manufacturing Department (up to the level of Supervisory Staff except HODs,DY.HODs and Engineers/Chemists, all DCS operators)available with the Mills. The Existing available permanent + Seasonal+ Daily wager manpower of the mills in crushing seasons for the operation of the plant. To run the Plant in smooth manner rest of remaining required staff/manpower as per Haryana Co Op Sugar Mill, Rohtak Sanctioned Staff Strength for 3500 TCD Sugar Mill Plant along with 16 MW Cogen Plant/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters. Required manpower (Annexure – F)is mandatory to deployed by party. Vacant post manpower (Annexure-C)is attached. Vacant posts number is not a benchmark if more manpower required than same will be arranged by party to ensure satisfactory R&M work . The Existing manpower of the mills (as per list annexed as Annexure-B) will be utilized by the party at the relevant post looking at suitability by the Party. Party ensures to engage and depute at least one Technical Head of Mechanical Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff according to run the plant efficiently in all manners comprising four shifts i.e. A, B, C & R.

The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period reasoning any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season every year and if any change/addition as and when takes place. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorate

deduction for whole of the month in the monthly bill will be done irrespective of the fact that whether Sugar Mill Plant is technically performing or not.

16. The replacement of technical Staff/Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract, will be in the Scope of Prospective Bidder/Party.
17. PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available than Party should provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, The Haryana Co. Op Sugar Mills Ltd., Rohtak.

Note:- If any other job work arises for operation, repair & maintenance other than above mentioned contractual labour job works then it will be in the scope of party.

18. Fire-Fighting system should be maintained and operated round the clock by bidder for the safety of plant.
19. Loss of any vehicle of farmer or contractor due to the faulty functioning of the bidder manpower the same will be borne by bidder.
21. The overtime of the permanent /Seasonal/Daily paid staff in the absence of staff of O & M agencies or extra work required in the plant will be paid by the Mills management & debited to the agency duly recorded in the time office of Mill & HR department of party. The overtime will be verified from the site in charge of the agency and Engineering / Manufacturing department.

23.0 Accommodation

- 22.1 Accommodation for staff of the PARTY in the **Dormitory only** will be made available on free by the MILL subject to availability of the Dormitory Accommodations with the Mills. Power supply will be Chargeable.
- 22.3 All other arrangements for food, medical, transportation etc. will be made by the PARTY.
- 22.3 The mill management will be authorized to vacate the provided accommodation.

Misc.: -

1. Party shall ensure that annual expenses on account of consumption of store & spare items are as per industry norms and not more than the average cost of last three years of our own sugar mill. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.
2. Season will be started in 2nd week of November.
3. Cane survey report will be handed over in due time.
4. Total cane to be crushed will be approx. 35 Lakhs $\pm$ 5 lakhs qtls.
5. Season may go on till month of May or till the complete crushing of cane in the assigned area.
6. Cane allotted from other mills as per MD Sugarfed or Cane Commissioner will also be considered as our own cane(if any).
7. All orders and directions as and when given by Haryana Govt., MD Sugar federation, RCS,DC-Chairman Rohtak, BOD/BOA of Rohtak mill shall be binding and non-negotiable.

Cluster -1

3. The Jind Coop. Sugar Mills Ltd., Jind

Scope of Work

Sr. No.	Description
	DURING OFF SEASON 2026 and Off-Season 2027
1	Overhauling, Repair & Maintenance of complete Mill House (04 Nos. Mills) including Mills Transmission System, Preparatory Devices, Cane carrier, and Bagasse Carriers work, Mills Rollers Grooving and turning work on lathe machines in workshop by two qualified turners, Mills Turbines & Power Turbine accessories repair (But Turbines will be overhauled by it's original manufacturer M/s Triveni Turbines Engg.), Mills Juice pumps & pipe lines, Cane Un-loaders, all Drives of Mills House, Cane Carrier & Bagasse Carrier Chains, One skilled Plumber for plumbing jobs of plant and colony etc. excluding instrumentation works, including dismantling work of all the chains, preparatory device & mills after closure of crushing season 2026-27 and Crushing Season 2027-28
2	Overhauling, Repair & Maintenance of both Boilers (20 Tons each) having pressure 21 kg / cm ² complete in all respect including all accessories, ID & FD Fans, Wet Scrubber, Main Steam Header and it's accessories, PRD Station, R.O. Water feeding (But R.O. will be overhauled by the Engineer of it's original manufacturer M/s Membrane India.), including general instrumentation work of Boiler Station, Turbine Section, PRDS etc. excluding Boiler Water Feed Pumps, external ash cleaning (one time), Internal tubes cleaning with flexible shafts, Boiler Chimney, major jobs of re-tubing and modifications etc.
3	Overhauling, Repair & Maintenance of Electrical Work of Mill House, Boiler House, Sugar House, Power House, Clarification House, under supervision of a qualified Electrical Foreman / Engineer having qualification and experience as per Haryana Sugarfed., Overhauling, Repair & Maintenance work of plant & colony electrical complaints like Lighting Work of Plant & Colony, Administrative Block, Bio-Lab, Guest House, Colony, Operation of D. G. Set in all three shifts with qualified Electrician/Wireman/Electrical Helpers, under supervision of qualified Asstt. Engineer (Electrical) in off-season 2026 and crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28 including dismantling & shifting of all the electric motors after closure of crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28.
4	Overhauling, Repair & maintenance of complete Evaporator Station, Pan Station, Magma & Molasses Pumps, Crystallizers Station, Air Compressors, Injection Pumps, Condensers and it's pipe lines etc. Repair of flexible shafts for cleaning of tubes for Juice heaters, Evaporators & Pans. Repair of all Sugar Stackers & Sugar Bags printing machine. Overhauling, Repair & Maintenance work of plant for Welding work of Clarification House and Sugar House with help of skilled Welders under supervision of qualified Asstt. Engineer (Mechanical) having qualifications as per Haryana Sugar-Fed. in off-season 2026 and crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28
5	Machining jobs related to Shaper and Planer like machining of Trash Plate, Mills House Scarpers, Keys & Key-ways and all the machining work related to shaper and planner of Workshop will be in the scope of Bidder.

DURING CRUSHING SEASON 2026-27 and Crushing Season 2027-28	
1	Operation and Repair & Maintenance for smooth functioning of complete Mills House including Cane Carrier, preparatory Devices, Cane Un-loading, Mills Turbines (02 Nos.), Power Turbine (01 No.), Bagasse Carriers work, Cleaning of Cane Carrier Chain and Mills Beds in each shifts, One skilled Plumber for plumbing jobs of plant etc. excluding instrumentation.
2	Operation and Repair & Maintenance for smooth functioning of complete Boilers House having both Boilers (20 Tons each) with pressure 21 kg / cm ² including complete operation to run Boilers and it's accessories like ID & FD Fans, Wet Scrubber, Boiler Water Feed Pumps, Main Steam Header, Bagasse Feeding & handling, Ash cleaning from Boiler Furnaces & Chamber, R.O. Water feeding (But R.O. will be overhauled and run by the Engineer of it's original manufacturer M/s Membrane India, which will be in mills scope) etc. excluding instrumentation work.

3	Overhauling, Repair & Maintenance of Electrical Work of Mill House, Boiler House, Sugar House, Power House, Clarification House, under supervision of a qualified Electrical Foreman / Engineer having qualification and experience as per Haryana Sugarfed., Overhauling, Repair & Maintenance work of plant & colony electrical complaints like Lighting Work of Plant & Colony, Administrative Block, Bio-Lab, Guest House, Colony, Operation of D. G. Set in all three shifts with qualified Electrician/Wireman/Electrical Helpers, under supervision of qualified Asstt. Engineer (Electrical) having qualifications as per Haryana Sugar-Fed. in off-season 2026 and crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28
4	Operation and Repair & Maintenance for smooth operation of Pan Station including operation of magma & molasses pumps, Injection Pumps, providing blinds during Evaporator body changing. Repair of flexible shafts for cleaning of tubes for Juice heaters, Evaporators & Pans during season. Repair of all Sugar Stackers & Sugar Bags printing machine as per complaints. Overhauling, Repair & Maintenance work of plant for Welding work of Clarification House and Sugar House with help of skilled Welders under supervision of qualified Asstt. Engineer (Mechanical) having qualifications as per Haryana Sugar-Fed. in off-season 2026 and crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28.
5	Machining jobs related to Shaper and Planer like machining of Trash Plate, Mills House Scarfers, Keys & Key-ways and all the machining work related to shaper and planer of Workshop will be in the scope of Bidder.
6	Operation work of some stations in Boiling House i.e. Evaporators Station, Juice Heaters, Juice & Syrup Sulphiters, Sulphur Furnaces, Lime Station, Clarifier, Pan Station, Crystallizers Station, Magma Mixture Station, Sugar Melter station, Sugar Hoppers, Sugar Graders with sugar Elevators, operation of PLC based Batch type centrifugal machines, Massecuite curing of A,B, CFW & CAW sugar, including preparation of MOL, shifting of grits, Lime loading / unloading, Process chemical and Sulphur shifting from store to station. Scraping of sugar and plant washing immediate after closure of crushing season, tube cleaning of Evaporators, juice heaters, & Pans during season and after closure of crushing season. Bidder will provide qualified shifts supervisors to monitor the operational activities of various stations allotted as well as Drier House shift supervisors for monitoring and keeping production record shift wise during the shift throughout the contract period.
7	Operation of Laboratory analyzing work by qualified & Experienced Lab Supervisors having qualification / experience as per Sugarfed., in all shifts to maintain record and working results by deputing a skilled Lab controller during off season 2026 and crushing season 2026- 27 and Off-Season 2027 and Crushing Season 2027-28 Note: The Time Period of Lab Controller will be up-to one month after closer of crushing season 2026-27 and Crushing Season 2027-28
8	Operation & maintenance of ETP station for crushing season -27 and Off-Season 2027 and Crushing Season 2027-28 including a period of one month before the start of crushing season and till up-to one month after closer of crushing season 2026-27 and Crushing Season 2027-28 as per guidelines / norms of CPCB / HSPCB. Bidder will be responsible for transferring data online to CPCB/HSPCB portal 24 x 7 during the running contract period and will maintain all record properly. Bidder will responsible for any penalty imposed by CPCB/HSPCB for violating the norms/guidelines issued time to time.
9.	Repair & Maintenance and supervision services of Cane / Sugar / Molasses Weigh-bridges by skilled technical persons.
	Note: - 1. The firm will have to complete the work as per detail / scope of work as mentioned in DNIT / e-Tender Form. 2. The firm will have to complete the AMC of various equipments as mentioned in DNIT/e-Tender Form.

Scope of work (Engg. Department)

1. Operation and maintenance of Mills House, Boiler House, Turbines Section, Electrical Work of plant, and some stations of Boiling House like Evaporator Station, Pan Station, Crystallizers, Injection Pumps & Spray Pumps, Air Compressors.
2. Providing qualified / trained / experienced staff against sanctioned vacant posts in Engineering Department.
3. AMC for repair & maintenance / running of various machinery / electrical panels / VFD panels as per list attached at Annexure- 'C'.
4. Various types of contractual jobs like running of RO plant etc. as per list attached at Annexure- 'C'.
5. External cleaning / washing / painting work of 02 Nos. boilers including wet scrubbers & ducting etc.
6. Cleaning and painting work of mill house machinery from cane carrier to BC / RBC. For painting work, paint will be provided by the mill.
7. Routine fabrication work for maintenance in the sections for which contract is given will be in the scope of contractor.
8. Heavy type fabrication jobs like replacement of pan shell, vapour pipes, vapour pipe bends, save-all cones, replacement of crystallizer shell, replacement of calandria, Boilers Tubes replacement etc. and any modification work will be in the scope of mill.
9. All the trial and testing of concerned sections after repair and maintenance work before start of crushing season will be in the scope of contractor.
10. Contractor will have to depute one senior technical person for supervision of operation and maintenance work along with supervisory staff to supervise all the contractual / operation & maintenance work.
11. Cleaning and painting of RO plant underground reservoirs (02 Nos. tanks etc.) will be in the scope of bidder.

Repair and Maintenance work during off season 2026 and Off-Season 2027 (Engineering Department)

1. Mill House

- a. **Cane Unloaders:** All three cane unloaders (03 Nos.) complete overhauling, checking, and repair work including drives, gearboxes, wheels, pinions/gears, brake assembly, welding of wheels & grab nails, and successful trials etc.
- b. **Cane Carrier:** Complete dismantling, replacing, and overhauling including chains, slates, drives, sprockets, idlers, and successful trials etc.
- c. **Chopper, Leveler, Cutter, Swing Cutter:-**Complete dismantling / replacement of Knives, Alignment, Bearing Checking, Hub repairing and successful trails etc.
- d. **All mills (04 nos.) :-** Complete dismantling, repairing and overhauling of Mills (04 Nos.) Transmission Gearing Secondary Gearboxes, Hydraulic Assembly, Lubrication System, Screw Conveyor, DSM Screens, Juice Pumps, Valves & pipelines, Inter Carriers (03 Nos.) including Rollers Re-grooving on Lathe Machine, Arcing work and successful trail after completion of assembling work.
- e. **Plumber :-** One skilled plumber for plumbing work of colony & plant.

2. Boilers (02 Nos.) :-

- a) Complete overhauling, Repair & maintenance of Boilers (02 Nos.) Texaco Make with Horse Shoe Type Furnace and Bagasse conveyors. All fabrication work related to boiler will be in contractors' scope except major repair jobs like tube replacement etc.
- b) Contractor will be responsible for Repair & maintenance and Hydraulic Testing of Boiler Components like Feed Water Tank, super heaters, Economizers, APH, ID and FD fans and their connected ducting systems, shells of wet scrubber, Record keeping by maintaining Log book for off-season and hydraulic testing as per IBR Standards.
- c) Contractor will be responsible for Repair & Maintenance of all Boiler Valves ,Mountings ,Accessories and other pressure parts and hydraulic testing as per IBR standards after completion of maintenance work.

3. Boiler R.O.:-

- a. Completeoverhauling,repair&maintenanceincludingtrials&troubleshootingworksofBoilerR.O.plantbefore the commencement of crushing season 2025-26, including Daily logbook /Record keeping will be maintained by you.
- b. General maintenance of the Electrical & Mechanical components installed in R.O. Plant including chemical handling, CIP, Pumps, vessels, Re-painting of R.O. Storage tanks, replacement of membranes and maintenance of electrical control panel will be carried out by you.

4. Mill Turbines (02Nos.) and Power Turbine (01No):-

- a. Complete dismantling & re-assembling of **02 Nos. Mill Turbines** and **01 Power Turbine** after repair of both Mill Turbines and Power Turbine, Governor, MOP, AOP, Oil Coolers etc. will be in contractor's scope.
- b. Repair & maintenance of all connected valves & steam lines of the turbines and cleaning, polishing of bearings, repairing & replacement of mechanical components (if required) of the turbines will be in contractor's scope.
- c. Cleaning, flushing & repairing of lubrication.
- d. System oil tanks & connected lines including MOP, AOP etc. will be in contractor's scope.
- e. After re-assembling of all 03 Nos. of turbines & other components, full load trials will be taken during steam trials of the plant to verify the performance of the turbines and maintenance work carried out by contractor on the turbines.
- f. The open inspection, servicing & assembling of both Mill Turbines and Power Turbine will be carried out by **M/s Triveni Turbine Ltd. recommended Expert Engineer** (original manufacturer) and the skilled labour will be provided by you.

05. Boiling House

- a) **Evaporators:-**
CompletedismantlingandoverhaulingworkofallEvaporatorsbodies&othermechanicalcomponentsandsuccessfulHydraulictesting & trails.
- b) **Pan Station :-** All Valves Dismantling, repairing& overhauling and assembling work ,Checking of pans, Save-all, Vapour Pipe lines, Syrup Tank, Pan Discharge Valve, Air Compressors and successful Hydraulic testing & trails.

c) **Crystallizers:-**

Completed dismantling and overhauling work of all Crystallizers including Gear Boxes & other mechanical components and successful Hydraulic testing & trails.

d) **Injection Pumps:-** Complete Dismantling, repairing & overhauling and assembling work of pipe lines, pumps, valves, condensers and successful trail & testing.

06. Electrical Section:-

Overhauling, Repair & Maintenance of Electrical Work of Mill House, Boiler House, Sugar House, Power House, Clarification House, under supervision of a qualified Electrical Foreman / Engineer having qualification and experience as per Haryana Sugarfed., Overhauling, Repair & Maintenance work of plant & colony electrical complaints like Lighting Work of Plant & Colony, Administrative Block, Bio-Lab, Guest House, Colony, Operation of D. G. Set in all three shifts with qualified Electrician/Wireman/Electrical Helpers, under supervision of qualified Asstt. Engineer (Electrical) having qualifications as per Haryana Sugar-Fed. in off-season 2026 and crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28

07. AMC:-

AMC for repair & maintenance / running of various machinery / electrical panels / VFD panels as per list attached at Annexure-‘C’.

08. Various types of contractual jobs like running of RO plant as per list attached at Annexure-‘C’.

9. Cleaning and painting work of mill house machinery from cane carrier to BC/RBC for painting work paint will be provided by mill.

10. Routine fabrication work for maintenance work in the sections for which contract is given will be in the scope of contractor.

11. Heavy type fabrication jobs like replacement of pan shell, vapour pipes, vapour pipe bends, save all cones, replacement of crystallizer shell, replacement of calandria, Boiler Tube replacement etc. and any modification work will be in the scope of mill.

12. All the trial and testing of concerned sections after repair and maintenance work before start of crushing season will be in the scope of contractor.

13. Contractor will have to depute one senior technical person for supervision of operation and maintenance work along with supervisory staff to supervise all the contractual/operation & maintenance work.

14. Cleaning, painting of RO plant underground reservoirs 02 nos. tank etc. will be in the scope of bidder.

15. The contractor will have to depute one technical head with supervisors to look after the repair maintenance work of mill house, pan and centrifugal section and other contractual jobs / AMC. The successful bidder shall have to submit list of required qualified / trained/ efficient/ experienced manpower to mill management at the time of entering into contract and any change/ addition, the mill management shall be liberty to physically check the manpower deployed as per list provided. In case of short fall is found more than 10% then a prorata deduction for whole month in the monthly bill will be done.

16. For smooth functioning of mill during crushing season, the repair and maintenance of mill house, Boiler House, Turbine Section, Electrical Section, Some Section of Boiling House should be done properly by the party.

17. AMC for repairing / servicing of various machinery & equipment except Power Turbine, Mill turbine & instrument panels shall be got done by the successful bidder from OEM or authorized service provider. The copies of purchase order issued to OEM/authorized service provider shall be submitted to mill within 45 days of entering into contract. The bidder have to provide the certificates of service/ repair carried out From OEM/OEM authorized service provider at least 20 days before the schedule of trials of plant. In case

of further non submission of work order in schedule time The Mill management shall have at liberty to got done the left out work from the OEM at the risk and cost of contractor. The list of AMC/Contractual works is enclosed at 'Annexure C'

18. The party will prepare a report of assessment of work and will provide a copy of report along with required consumables / spares & machinery parts of concerned sections for which contract is allotted.
19. Consumables and material required by the party for repair and maintenance of plant & machinery for the sections for which contract is given will be provided by the mills as and when required.
20. All the machinery of sections for which the contract is given should be dismantled and repaired properly/assembled and checked by taking the trial in every off season.
21. Routine fabrication erection work during repair of sections for which contract is given will be in the scope of party.
22. If during repair and maintenance work any machinery required to be replaced by new one the same shall be decided jointly by party senior technical person and technical officer of mill with the intimation to Chief Engineer and in case of any dispute the decision of Managing Director, Sugar Mill Jind will be final.
23. All the repair and maintenance work of sections allotted to party for off season 2026 should be got completed by 30th October 2026 and for off season 2027 should be got completed by 30th October 2027
24. Painting work of plant & machinery, after repair and maintenance work from cane carrier to mills, bagasse elevator, Bagasse carrier/ RBC columns, belt conveyor, columns, rack carrier, Mills House, Boiler House, Turbine Section, Motors etc. will be in the scope of party.
25. Any kind of work shop related work will be in the scope of mill for repair & maintenance work.
26. Roller grooving, roller arcing will be in the scope of party during off season and crushing season.
27. AMC of online data transfer and maintenance of system before start of crushing season for water and Air Pollution Control system will be in the scope of party from its OEM/authorized service provider.
28. External cleaning of both boilers / ducting, wet scrubber, RO plant and their painting will be in the scope of party during off season.
29. Bidder shall arrange sufficient manpower for cleaning of drains at Mill House, Boiler House, and Boiling House up to ETP, and also keep the complete plant neat and clean by removing sludge etc. during tube cleaning work. The bidder shall also ensure cleaning work of Mill House, Drier House etc. during the work. Cleaning of Sulphiter and SO₂ gas pipelines shall also be carried out. Further, the bidder shall maintain cleaning work of Mill House, Boiler House, Power House, Boiling House, Pan House, Centrifugal House, and Drier House etc. during the crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28

Operation & Maintenance work during crushing season 2026-27 and Crushing Season 2027-28 (Engg. Department)

1. **Mills House:-**
 - a. **Cane Unloaders (03) Nos. :-** Operation, replacement for crushing season of all cane unloaders. Cane feeding of each shift in sufficient quantity by trained unloader operators.
 - b. **Cutters:-** Smooth operations of cutters (leveler, chopper & swing cutter) as per requirement during crushing season. cane cutting knives replacement work.
 - c. **Cane Carrier:-** Smooth operation of cane carrier, chain cleaning in each shift including cane carrier pit.

- d. **Mills:-** Mills 04 Nos. Operation , replacement for smooth operation of its attached equipment in each shift quantity of lubrication including juice pumps. Proper cleaning of Mill bed in each shift.
- e. **Plumber:-** One skilled plumber for plumbing work of colony & plant.
- f. **Bagasse carrier:-** Bagasse carrier operation, repair & maintenance during season for smooth functioning. Cleaning & washing of Mills platform in each shift.

2. Boilers (02 Nos.)

- a. Operation, repair & maintenance for smooth functioning of both boilers (capacity 20 TPH, working pressure 21 kg/cm²) in each shift.
- b. Boiler feed pumps, ID & FD fans, and wet scrubber smooth operation along with their attached accessories in each shift.
- c. Furnace & chamber ash cleaning properly of both boilers.
- d. Wet scrubber pit ash cleaning work.
- e. R.O. operation during feeding of feed water shall be run by skilled operators.
- f. Bagasse feeding & handling to be done smoothly by the contractor.
- g. Any bagasse jamming during season shall be cleaned by the contractor.
- h. Complete operation of boilers along with deputation of competent manpower on Rake Elevator, RBC, and Bagasse Conveyors. Boiler operation staff shall include 1st class qualified Boiler Attendant, Fireman, Waterman, Feed Water Attendant etc. during the crushing season 2026-27 and Crushing Season 2027-28 as per IBR norms.
- i. Ash disposal & bagasse handling will be in contractor's scope.
- j. Boiler safe operation and maintaining boiler parameters, hourly record keeping will be in contractor's scope.
- k. Contractor will ensure efficient operation of wet scrubber for particulate emissions as per Pollution Control Board requirements.
- l. Contractor will ensure that all deputed staff is well-trained for emergency handling, safe boiler operation, and quick response during breakdowns.
- m. At the end of crushing season, contractor will be responsible for normal cool-down of boiler and submission of detailed operational & maintenance record / log book, and hand over the boiler in safe condition to the management.
- n. Complete operation of R.O. plant during crushing season 2026-27 and Off-Season 2027 and Crushing Season 2027-28 including deputation of skilled manpower like RO water chemist and operators, who will operate in shifts during the season.
- o. RO water chemist will be responsible for maintaining RO water parameters, routine logbook filling and record keeping, overall health of RO plant (including MGF, ACF, high-pressure pumps, RO membrane, chemical dosing system, chemical handling, mix bed, and storage tanks etc.), and ensure daily backwash, rinsing, and overall readiness of the RO plant.
- p. The contractor will have to clean the Boiler Furnace and Ash Chambers in each shift of both boilers daily. Internal ash cleaning shall be carried out at the time of short/general cleaning.

3. Mill Turbines (02Nos.) and Power Turbine (01No):-

- a. Mill Turbines: Smooth operation of Mill Turbines (02 Nos.) by skilled turbine operators in each shift.
- b. Power Turbines: Smooth operation of Power Turbines (01 No.) by skilled turbine operator in each shift.
- c. Contractor will provide skilled turbine operators for both Mill Turbines and the Power Turbine.
- d. Contractor will be responsible for continuous turbine parameter monitoring and safe operation of all 03 Nos. of turbines, including hourly log book maintenance.

- e. Contractor will ensure that turbine attendants provided to the mill are well-trained and experienced to handle emergencies and ensure safe operation of the turbines.
- f. At the end of the crushing season, contractor will normally shut down and cool the turbines, and hand them over to the management in clean and safe-to-inspect condition.

4. Electrical Section:-

- a. Operation Repair & Maintenance of whole plant drives, VFDs, PLC for smooth functioning during crushing season in each shift.
- b. Power house Electrical Panels monitoring in each shift by skilled electricians / SBA as per Haryana Sugar -Fed.
- c. All complaints of colony and plant related to lighting should be attended properly, including electrical issues problems of Ahirka Farm,
- d. administrative Block, Bio-Lab. Etc.
- e. Operation, Repair & maintenance of ETP for smooth operation including drives Panel etc.

5. Boiling House

i) Pan Station:

- a) Complete Pan Station smooth operation, repair & maintenance during season by skilled persons.
- b) Operation, repair & maintenance of syrup tanks, valves, pipelines etc. in each shift.

ii) Crystallizers:

- a) Smooth operation, repair & maintenance during season by skilled persons in each shift.
- b) During season, any jamming/cleaning work to be done by contractor.
- c) Any leakage of coil should be attended properly by contractor.
- d) All drives lubrication, smooth operation checked by skilled persons.

iii) Air compressors, injection pumps with all accessories – operation, repair & maintenance during season by skilled operators.

iv) As per requirement, condenser to be checked during crushing season.

v) Evaporators, Pans, Crystallizers, Injection Pumps, Spray Pump, Compressors – machines operation during season by skilled manpower.

6. The contractor has to engage qualified / experienced / trained staff as per staff strength of our mill for operation of complete Mill House, Boiler House, Turbines, Electrical Section, Boiling House Stations like Evaporators, Pan Stations, Crystallizers, Air Compressors, Injection Pumps, Spray Pump etc. in all shifts.

7. Contractor will be responsible for all cleaning / washing work at Mill House and Boiling House in all the shifts. Contractor will have to engage qualified / trained / experienced staff in all three shifts to take up the maintenance / trouble-shooting work at Mill House, Boiler House, Turbines, Electrical Section, Boiling House Stations like Evaporators, Pan Stations, Crystallizers, Air Compressors, Injection Pumps, Spray Pump. Attendants, welders, khalashi etc. will be engaged by the contractor to run this section smoothly.

8. In case of absentee of any staff of contractor on key post, contractor will have to make arrangement against the absentee; otherwise, mill will make the arrangement at its own level and the cost/overtime against the absentee will be debited to the contractor's account.

9. All types of consumables/spares for smooth operation of plant will be provided by mill.

10. Running of RO Plant from experienced/trained staff will be in the scope of party.

11. Any chemical required to run the RO Plant will be provided by mill.

12. All the log books required at RO Plant should be maintained by the party and their staff for proper monitoring.

13. Cleaning of cane carrier pit up to mill bottom juice drainage, all panel rooms, scattered bagasse, nearby boiler house.

- 14.** Contractor will be responsible for all cleaning/washing work at Mill House and Boiling House in all the shifts.
- 15.** In case of absentee of any staff of contractor on key post, contractor will have to make arrangement against the absentee; otherwise, mill will make the arrangement at its own level and the cost/overtime against the absentee will be debited to the contractor's account.
- 16.** All types of consumables/spares for smooth operation of plant will be provided by mill.

Scope of Work (Mfg. Department) During Season 2026-27 and Crushing Season 2027-28

1. The bidder will have to do all trial & testing before start of crushing season and operational work of **Juice Heater Station** in all shifts during crushing season and take up the contractual jobs for smooth running of plant like Juice Heater cover opening and closing with tube cleaning and testing of Juice Heaters, while tube cleaning and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28 and tube cleaning immediately after closure of crushing season.
2. The bidder will have to do all trial & testing before start of crushing season and operational work of **Evaporator Station** in all shifts during crushing season and take up the contractual jobs for smooth running of plant like Evaporator body opening and closing with tube cleaning of evaporator bodies and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28 and tube cleaning immediately after closure of crushing season.
3. The bidder will have to do all trial & testing before start of crushing season and operational work of **Juice and Syrup Sulphiter Station** in all shifts during crushing season like cleaning work of Juice and Syrup Sulphiter with lines & catchers regularly and keeping workplace neat and clean etc. during crushing season.
4. The bidder will have to do all trial & testing before start of crushing season and operational work of **Dorr Station** in all shifts and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28
5. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Sulphur Furnace Station** as well as cleaning of sulphur melters and burners with SO₂ gas lines as per requirement for smooth running of plant and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28.
6. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Lime Station** during all shifts like preparation of Milk of Lime and maintain lime of 6 Baume, cleaning of lime tanks and catchers regularly and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28.
7. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Pan Station** during all shifts with cleaning work of syrup tanks, massecuite gutters regularly, with contractual jobs for smooth running of plant like tube cleaning of pan bodies and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28.
8. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Crystallizers** during all shifts with cleaning work of crystallizers in case of jamming/leakage of coil of any crystallizer and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28.
9. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Centrifugal Station** of massecuite curing of A, B, CFW & CAW sugar during all shifts with cleaning work of continuous machines in case of jamming or any overflow of massecuite and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28.
10. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Magma Mixture and Melter Station** during all shifts with cleaning work in case of jamming or any overflow of magma mixture and melters and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28.
11. The bidder will have to do all trial & testing before start of crushing season and operational work activities of **Sugar Hoppers and Graders Station** during all shifts with cleaning work of hoppers and graders with sugar elevator in case of jamming or any other technical fault of PLC machines, reprocessing of sugar dust and rori and keeping workplace neat and clean etc. during crushing season 2026-27 and Crushing Season 2027-28..

12. The bidder will have to do all trial & testing before start of crushing season and operational work of **ETP Station** which should be started one month before crushing season and continued one month after crushing season as per CPCB guidelines. Party will run plant during all shifts with cleaning work of all tanks and lines to treat effluent, maintain CPCB/HSPCB norms, submit test reports of treated water & stack monitoring from approved laboratory, and monthly reports of online data transferred to CPCB/HSPCB. The bidder will be responsible for any penalty imposed by CPCB/HSPCB if any, and ensure workplace neat and clean during crushing season 2026-27 and Crushing Season 2027-28..
13. The bidder will have to depute **Drier House supervising personnel** in all shifts to supervise sugar production and drier house work during crushing season 2026-27 and Crushing Season 2027-28..
14. The bidder will have to do operational work of **Laboratory supervision services** to maintain records and working results by deputing a skilled lab controller with lab shift supervisors in each shift for analysis work by qualified/experienced personnel during crushing season 2026-27. Lab controller will be required till RT-8(C) submission.
15. The bidder will have to do **Sugar Scrapping** from various equipment in Boiling House and Sugar House, filling in 50 kg bags, weighing, stitching and shifting to godown as per instruction of Chief Chemist after closure of crushing season. Internal and external plant washing work of all equipment, pipelines, floors of Pan Station, Crystallizers, Centrifugal Station, Magma Mixtures, Melter, Drier House, Grader, Sugar Bins, Boiling House and Clarification House etc. will be in the scope of party.
16. The bidder will have to do operational work of supervision services of **repair & maintenance of Cane/Sugar/Molasses Weighbridge** work by qualified/experienced personnel during crushing season 2026-27 and Crushing Season 2027-28..
17. Disposal of sludge and scale from the plant to outside at the place as instructed by Mills management.
18. Shifting of moist/scrapped/brown sugar available from sugar godown and reprocessing work of sugar as per instruction of Chief Chemist during crushing season 2026-27 and Crushing Season 2027-28..
19. Bidder will do all the **AMC from OEM/authorized service provider** as per list attached at Annexure-‘C’.
20. Loading/unloading of lime, sulphur, packing material, chemicals etc. and their shifting to required place during off-season and crushing season will be in the scope of bidder.
21. Any cleaning if required in Boiling House equipment during crushing season will also be in scope of party.
22. Plant sanitation work on regular basis will be in the scope of party.
23. Washing of complete Drier House, Boiling House, Pan/Centrifugal House, Mill House after closure of crushing season will be in the scope of party.
24. External & internal cleaning of both molasses storage tanks, if tanks become empty.
25. AMC of online data transfer and maintenance of system before start of crushing season for water and air pollution control system will be in the scope of party from its OEM/authorized service provider.
26. External cleaning/washing/painting work of **02 Nos. Boilers** including wet scrubbers & ducting etc.
27. Cleaning of U-Type Crystallizers during crushing season in case of jamming of any crystallizer.
28. Any cleaning if required in Boiling House machinery during crushing season will also be in scope of party.
29. Providing contract/arrangement of labour for complete sugar handling work will be in the scope of bidder.
30. Cleaning of jammed crystallizer, cleaning of jammed SO₂ gas lines, cleaning of sulphur furnace, cleaning of sulphiter and reprocess of scrapped sugar stored in crystallizers & tanks shall be done by the contractor during the crushing season.
31. All the log books required at ETP/RO Plant should be maintained by the party and their staff for proper monitoring.
32. Any chemical required to run the ETP/RO Plant/CPU will be provided by mill. But unloading will be in the scope of bidder.

2. Manpower:-

Bidder have to depute one experienced technical head along with supervising staff to look after the operation & weighment work as mentioned in DNIT. The successful bidders have to submit the list of qualified/trained/efficient/experienced man power to Mill Management before start of crushing season and if any change/addition as and where takes place. The Mill Management shall be at liberty to physically check the man power deployed as per the list provided and if the shortfall of more than 10% is found then proportionate deduction for whole month in the monthly bill will be done irrespective of the fact whether sugar mill plant is technically perfect or not.

- 2.1 PARTY shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mill applicable Service Rules. If due to reason the required qualification and experienced staff not being available than Party should provide well experienced technical staff of Sugar Industry.
- 2.2 The PARTY should provide a list of key technical experts, maintenance, and operating staff station wise indicating their qualification/experience to the MILL at the time of engaging at site.
- 2.3 Party should depute Sr. Technical Officers having well versed knowledge of operation and maintenance activities of the Sugar Mills to monitor the day routine activities of the Plant.
- 2.4 All persons engaged by the PARTY directly or indirectly shall be employees of the PARTY and it is obligatory on the part of the PARTY to cover all their employees under Workman Compensation Act 1923 and other applicable Labour Laws on time-to-time basis.
- 2.5 The PARTY will be responsible for deduction of EPF/ESI/Labour Cess and any other such liability from their employees and MILL will not be responsible for any monetary claim or payment to the PARTY employees or statutory authorities under the Employees Provident Fund, Family Pension Fund or under any other applicable statutory laws.
- 2.6 Group Insurance Policy of employees of the PARTY will be the responsibility of the PARTY and MILL will not be responsible for any claim / compensation which may be due to unforeseen and unfortunate incident/accident to be in future, whereas if any compensation/settlement amount to be required to be made under the Workmen Compensation Act, 1923 or any other statutory applicable labour laws.
- 2.7 In the event of any accident/casualty etc. of the employees of the PARTY, Party representative will do all efforts to hospitalize the said employees and other action required in this regards and MILL will not be responsible for any kind of unfortunate incident/accident as well as PARTY will ensure all safety measures for its employees.
- 2.8 The PARTY shall ensure that the age of deputed employees will not be less than 18 years in any case.
- 2.9 The PARTY shall withdraw/ replace those employees, who are not performing the work to the satisfaction of MILL or for their misconduct and for any other reason, as indicated by the MILL in writing to the PARTY within 48 hours of the said communication. In order to ensure quality repair/ maintenance of the plant, PARTY should not replace/withdraw the maintenance staff without consulting to MILL.

In case due to shortage of manpower, any maintenance jobs are not likely to complete in well given time, MILL will have the right to outsource the same to the third Party at the risk and cost of the PARTY.
- 2.10 PARTY will also ensure 100% reprocessing of brown/ BSS and scrapping sugar of previous year including shifting of same from place of storage to curing house.

- 2.11 PARTY shall abide at all times by all existing enactments and rules made there under, regulations, notifications and bye-laws of the State or Central Government or Authority and all labour Law (including rules), regulations, by laws that are applicable, The PARTY shall keep the MILL indemnified in case any action is taken against the MILL by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, the regulation or notifications including amendments. Thereof if the MILL is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/by laws/Acts/Rules/Regulations including amendments if any, due to any act or omission on the part of the PARTY, the MILL shall have the right to deduct money due to the PARTY including invocation of Performance Security if due any. The MILL shall have right to recover from the PARTY any sum required or estimated to be required for making good the losses or damages suffered by the MILL. The employees of the PARTY or any person employed for any work indicated in this Agreement or indicated thereto, in no case shall be treated as the employees of the MILL at any point of time, in any manner whatsoever.
- 2.12 Sub-letting of repair, Operation and Maintenance shall not be allowed except ETP, RO plant, Online water pollution control system should be operated by the OEM/authorized service provider with consultation of Mill.
- 2.13 Contractor shall re-process scrap sugar store in Storage tanks
- 2.14 Contractor shall arrange the sufficient manpower during crushing season to clean U-type & Vacuum crystallizer jammed during the crushing season due to power failure, drive trouble or arm broken etc. during the crushing season.
- 2.15 Contractor shall scrap the sugar, store the scrap sugar, cleaning and washing of complete plant from cane carrier to drier house and molasses weighing scale, cutter all the Mills. Complete boiling house, evaporator Pan, Crystallizer, Centrifugal, drier house, juice, water & molasses weighing scales etc. after closure of crushing season. Contractor shall also clean the roof of complete plant and remove the sludge out side from mill premises after cleaning and washing of plant.
- 2.16 Contractor shall arrange the experienced manpower to clean the tubes of evaporator bodies, juice heater and pan during the crushing season and after the closure of crushing reason. Mill have following equipments for tube cleaning:-

Sr. No	Specification
A.	V.L.J.Heater-02nos of H.S.-140M ² , and 250m ² , Tubesize 42mmsx45mmx4000mm
B.	Vertical tubular juice heater -6 nos. of H.S. – 179 m ² each Tube size 42mmsx45mmx4000mm
C.	Vertical tubular condensate juice heater -02 no. of H.S. – 120 m ² Tube size 42mmsx45mmx4000mm
D.	Vapourcell-01No.of H.S.-1600 m ² Tubesize 42mmsx45mmx2000mm
E.	Vapourcell-01No.of H.S.-1100m ² Tubesize 42mmsx45mmx2000mm
F.	EvaporatorBody-01of H.S.-750m ² Tubesize 42mmsx45mmx2000mm
G.	EvaporatorBody-01No.of H.S.- 650m ² Tubesize 42mmsx45mmx2000mm
H.	EvaporatorBody-01No.of H.S.-560m ² Tubesize 42mmsx45mmx2000mm
J.	EvaporatorBody-03No.of H.S.-440m ² Tubesize 42mmsx45mmx2000mm
K.	Pan-60TCap=01Nos.of H.S.-310m ² Tubesize 98mmx101mmx900mm
L.	Pan-40TCap=01No.of H.S.-185m ² Tubesize 98mmx101mmx900mm
M	Pan-40TCap=04No.of H.S.-185m ² Tubesize 98mmx101mmx1200mm

Contractor shall arrange to carry the chemicals from store for soda boiling in evaporator bodies, pan & fill in evaporator bodies/pan for soda boiling. He shall arrange sufficient manpower to open the cover of juice heaters, their tube cleaning and then close the covers after tube cleaning and checking. Contractor shall open both the manholes, juice coil dummies and sight glass of

evaporator bodies & pan, carry out tube cleaning, and then close both the manholes after dummies & sight glass etc. after cleaning and checking. Manholes of evaporator bodies, pan & covers of juice heaters shall be opened and closed by the contractor during off-season 2026 & crushing season 2026-27 and Crushing Season 2027-28..

- 2.17** Contractor shall arrange sufficient manpower for shifting of sulphur from sulphur godown to sulphur furnace platform in all shifts during crushing season 2026-27 and Crushing Season 2027-28.. Contractor shall also shift the balance/excess sulphur in store from sulphur furnace platform to sulphur godown after closure of crushing season.
- 2.18** Contractor shall arrange sufficient manpower for cleaning of drain at Mill House and Boiling House up to ETP. He shall also keep neat and clean the complete plant and remove sludge etc. during tube cleaning, sulphur cleaning, S.F. gas line cleaning etc.
- 2.19** Contractor shall arrange manpower to shift the process chemicals from store to different stations at Boiling House, Pan, Centrifugal etc. as per requirement during crushing season 2026-27 and Crushing Season 2027-28 and again shift the excess/balance chemical from Boiling House to store after closure of crushing season.
- 2.20** Contractor shall arrange sufficient and experienced manpower to run ETP round the clock, test all the parameters and maintain all the parameters decided by CPCB/HSPCB. He shall run the plant one month before start of crushing season and one month after closure of crushing season to develop MLSS in the aeration chamber and treat all effluent water generated during crushing season, spray pond, plant washing etc. Contractor shall keep ETP neat and clean at its surroundings. There should not be bushes etc. around the plant. He shall clean all sludge beds and other equipment/machinery at ETP as required during crushing season. A collective sample of treated effluent water shall be drawn in your presence and sent to the office of Pollution Control Board for checking of parameters. All parameters of the sample should be as per CPCB/HSPCB norms. Any deviation and penalty imposed by PCB shall be borne by the contractor. Contractor shall be responsible to provide CTO from HSPCB. Contractor shall maintain the log book having all details like flow, pH, energy, chemical addition etc. All required chemicals like cow dung, urea, DAP, enzymes etc. should be added by the contractor and carried from store.
- 2.21** Contractor shall arrange manpower for preparation of milk of lime during crushing season 2026-27 and Crushing Season 2027-28 in all shifts. He shall keep sufficient stock of unslaked lime at Lime Station platform, prepare milk of lime of 6-7° Baume, keep one tank always full and another half tank with MOL, remove and shift lime grit to desired place, keep Lime Station neat and clean including pumps, bundle empty lime bags, and store balance unslaked lime properly after closure of crushing season.
- 2.22** Contractor will have to depute skilled and qualified manpower and supervisors at Mill House, Boiler House, Turbine Section, Electrical Section, and some stations of Boiling House.
- 2.23** Contractor will have to arrange bagasse feeding arrangement with own tractor, bagasse coolies & fuel for bagasse vehicle during crushing season and at the time of steam trials.

3.0 Accommodation

- 3.1** Accommodation for staff of the PARTY will be made available free by the Mill subject to availability.
- 3.2** Electricity will be provided for staff quarters of PARTY on payment basis. Staff should not misuse electricity and water. In case of theft/damage to fittings, the same will be repaired/replaced by the bidder at own cost.
- 3.3** All other arrangements for food, medical, transportation etc. will be made by the PARTY.
- 3.4** In case accommodation is required wholly or partly by Mill management, the same will be vacated by the bidder within 15 days.

ANNEXURE-C

AMC of various equipments

Sr.No	Description	Qty
1.	AMC of VFD Pannels (Siemens & Amtech Make)	06 Nos.
2.	Cenlub Centralized lubrication system. Make:- Cenlub.	
3.	AMC of RO Plant for Boiler from its original manufacturer (M/s Membrane India Ltd.)	
4.	AMC for servicing and over hauling of air compressors Details of Air compressors are as under:- 1. 7x5, ESV-1 LUB/Ingersole Rand -01Nos 2. 9x7, ESV-1 LUB/Ingersole Rand -02Nos 3. 9½x5, ESV-1 LUB/Ingersole Rand -01Nos 4. 4 & 2½ x 2¾, Hallmark -01Nos 5. Ingersole Rand (Model No.2545) -03Nos	
5.	AMC of Servicing and overhauling of Centrifugal machine Electrical panel.	
6.	AMC of servicing and overhauling of sugar stacker.	04 Nos.
7.	AMC of Sugar Bag printing machine for the crushing season 2026-27 Crushing Season 2027-28.	
8.	Mill have jute bag printing machine for printing of logo and other details in 50Kg A-type jute bags machine. Contractor shall do the said job through any experienced party for AMC of jute bags printing machine for the crushing season 2026-27 Crushing Season 2027-28.	
9.	AMC of sugar bag stitching machine (Make – Qualitex Stitch well) (02 nos conveyor & 05 nos stitching heads) for the crushing season 2026-27 Crushing Season 2027-28) The mill has 05 Nos. sugar bag stitching machine heads and 02 Nos. complete units conveyor for stitching of sugar bags of The contractor shall do the said job through any experienced party	
10.	AMC of two nos Auto Sugar Weighing machine for the crushing season 2026-27 Crushing Season 2027-28. (Make – Hitech) The mill has two Auto Sugar Weighing Machines of make M/s Hitech Engineers, Chennai (02 Nos.). The contractor shall carry out the said job either through the original manufacturer or through an expert person to ensure trouble-free running of the machines. All required spares shall be arranged by the contractor. The auto weighing machines shall be cleaned and checked in each shift for proper working.	
11.	AMC for ones Nos Pan Discharge Valve Automation for the crushing season 2026-27. Mill have installed auto feed control system at pan no. 1 of capacity 60T each. Contractor shall do the said job through Experts.	
12.	Annual maintenance contract for ETP online data transfer	

	Annual maintenance contract for ETP online data transfer to the server of CPCB/HSPCB for the period from one month before the start of crushing season 2026-27 and Crushing Season 2027-28 and one month after the closure of crushing season. Mill have installed online data transfer for system of treated effluent water through M/s NAVCO Pvt Ltd., The said supplier should have own server by which data of treated effluent water of Sugar Mill Jind direct transfer to the server of CPCB/HSPCB	
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Cluster -2

1. The Shahabad Coop. Sugar Mills Ltd., Shahabad

Scope of Work

1. Scope of Work during off season 2026& 2027 and crushing season 2026-27& 2027-28:

The scope of work will involve Contract of complete operation and maintenance of Double sulphitation Plant of 5000 TCD along with 24 MW Co-generation Plant for the off season 2026 & 2027 and season 2026-27 & 2027-28 i.e., repair & maintenance of plant during off season 2026 as well as trial/testing and Operation (along with repair & maintenance of plant during seasons) of the Plant during the crushing season 2026-27 & 2027-28.

Repair, Maintenance & Operation of MILL during off season & crushing seasons shall include but not limited to the following:-

Repair Maintenance Work during Off season 2026:-

1.1(1) Mill will provide the existing available technical staff of Engineering and Manufacturing Department available with the Mills. The Existing available permanent manpower of the mills in 2026 for the repair, maintenance and operation of the plant during off-seasons is 76 person of Engineering Department and 12 person of Manufacturing Department. To repair, maintenance and operation of the Plant in a smooth manner rest of remaining required staff/manpower as per the Sanctioned Staff Strength of The Shahabad Coop. Sugar Mills/as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters as desired by the Mills. The Existing manpower of the mills) will be utilized by the bidder at the relevant post looking at suitability by the Bidder and balance vacant manpower will be arranged by Bidder with the consent of Mills. Vacant post manpower is mandatory to be deployed by the bidder. Vacant posts number is not a benchmark if more manpower required then the same will be arranged by bidder to ensure satisfactory repair, maintenance and operation work. Bidder ensures to engage and depute at least one Technical Head of Engineering and One of Manufacturing along with Engineering section incharges at Mill, Boiler, Turbine, Co-generation, Electrical, Instrumentation, Boiling House and Manufacturing Chemists at Clarification, Evaporator, Pan, Centrifugal, ETP and sufficient manpower/staff to carry out all repair & maintenance work well in time during off-season to run the plant efficiently during crushing seasons. The workers out of the above list deputed otherwise, absent/death/retirement/leave during the entire contract period causing any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of deputed/engaged qualified/ trained/ efficient/ experienced manpower to the mill management 02 days prior to enter into contract.

The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a prorated deduction for whole of the month in the monthly bill will be done irrespective of the fact whether Sugar Mill Plant is technically performing or not.

Biometric attendance for all deputed staff is mandatory. The arrangement and installation of biometric machines shall be the responsibility of the bidder. A time office clerk appointed by the bidder will record attendance at the specific office location designated by the mill. The mill reserves the right to verify online attendance records at any time. Attendance records of the bidder's employees shall be verified on a daily and shift-wise basis by the Mill's Time Office Clerk & HTK.

1.1(2) For smooth functioning of the Mill, off-season repair & maintenance of all sections/stations from cane unloading to final sugar bagging involving all civil, mechanical, electrical, Co-generation & instrumentation including DCS work from cane unloader to final molasses storage tank including sugar stacker, belt conveyor system, ETP & all juice, water & molasses weighing scales must be checked and repaired by the BIDDER.

Note:

1. All fabrication and erection job works during off-season and crushing season are excluded from the scope of this contract.
2. All major modification works during the off-season and crushing season including mechanical, electrical and instrumentation are excluded from the scope of this contract.
3. Services of OEMs, authorized dealers, AMC providers or any other Service Engineers required during the off-season and crushing season are excluded from the scope of this contract. However, the successful bidder shall provide all subordinate, skilled and highly skilled manpower required to support and assist such service engineers from authorized dealers, OEMs, AMC or other service providers.
4. All DCS and ACFC software programming and configuration activities are excluded from the scope of this contract.

The Bidder shall depute the separate trained manpower/ Reputed Professional service provider for repair, maintenance, overhauling & routine checking for the following mentioned jobs during off season and crushing season:-

Main & mini Spray ponds & mist cooling system's UPVC nozzles/ clusters/ pipes etc.
All nozzles of condensers & tail pipes of process section.
All planetary gear boxes of the plant.
Requirement of high pressure IBR welder as & when required
Checking, testing and filling of nitrogen gas accumulators of mills & turbine hydraulic system.

1.1(3) The BIDDER shall prepare a detailed work assessment report and submit the same along with tentative time schedule to the MILL immediately after receipt of the LOI/ final work order and after assessing the availability of materials in the Mill's store. The report shall include details of the required consumables, spare parts, machinery parts, store materials, machinery, and any other items necessary for execution of the work.

In case any material or component is of long delivery nature, the BIDDER shall intimate the MILL at least sixty (60) days in advance prior to its intended use, to ensure timely procurement and uninterrupted execution of work.

1.1(4) All consumables and materials except tools and tackles required by the BIDDER for repair of the Plant shall be arranged by the Mill as and when required. BIDDER submits the material requirement to the Mill at least 30 days in advance considering the Mill's procurement lead time.

1.1(5) All the repair & maintenance work of the MILL in Off season 2026 should be completed by the BIDDER within one month after placing the LOI/ work order and latest by 15th October for 2027.

1.1(6) If any of the machinery items is required to be replaced by new one, the same shall be decided jointly by BIDDER and Mills. In case any dispute /disagreement amongst the two, the decision of Managing Director, Shahabad Cooperative Sugar Mills Ltd. shall be final.

1.1(7) Work related with cleaning along with sanitation of factory area including cane carrier, different houses/ sections their all floors& roof, entire roads of factory premises, all Control Rooms, all drains in plants, all cable trenches / trays(opened, cleaned &covered) cleaning of Quad bodies/ Juice Heaters/ Pans, Drier House, Mill house, Boiler House, Process section, Lagoon, ETP & its surrounding area & all workers toilets/ washrooms etc. and shifting of scrap from different houses to scrap yard during off season and crushing season shall be in the scope of work of BIDDER.

1.1(8) The workshop shall be operated and managed by the bidder during both off season and seasons. During the crushing season, manpower shall be deployed in the workshop on a 24x7 basis. The overhauling and maintenance of all workshop machinery including lathe machines, shaper, planer, drilling machines, power hacksaw etc. shall be the responsibility of the bidder.

1.1(9) Store material handling i.e. unloading of wood, cement, M.S. iron & steel, pipe lines, vapour pipe lines, pumps, motors, machinery, lubricants, gunny/P.P.bags, including loose & packed materials, filling lime & sulphur in bags & shifting inside factory at different locations, shifting of chemical bags & chemical drums for store to evaporator station, pan station of any other place in the mills, lime & sulphur shall be shifted to the lime slacker & sulphur furnace, regular cleaning of all the racks inside store, shifting of materials inside store, proper storage of materials in store racks, hand over / issue the required materials to factory employees as per requirement / as per store issue slip materials, proper receipt & storage of old materials hand over, any other job required to carry out the work of store handling etc. shall be in the scope of BIDDER.

1.1(10) To obtain NOC from Air and Water Pollution Control Board, Chief Inspector Boilers, Chief electrical Inspector, Equipment safety inspector, electricity board related correspondence etc. will be in the scope of the Bidder and statutory & required Fees will be deposited by the Mill.

1.1(11) The Factory has industrial power connections from HVPNL, which shall be used only for auxiliary supply purposes. The BIDDER shall utilize grid power and DG sets for carrying out testing and trial. The BIDDER shall ensure that the maximum demand of the HVPNL connection does not exceed the contracted load. In the event of any excess maximum demand, any penalty levied by HVPNL shall be borne by the BIDDER.

1.1(12) All DG sets and Tube wells installed in factory which are being used for maintenance & operation purpose of Mill will be maintained and run by the BIDDER as per direction of MILLS Technical Staff except requisite consumables, spares/ parts/ HSD/ electrical power etc.

1.1(13) During both the off-season and crushing season, if any job work related to the Mill workshop is required to be carried out at an external agency's workshop, the expenditure incurred towards labour and transportation shall be borne by the BIDDER.

1.1(14) Painting work will be carried out by bidder as per direction of Mill. Required Paints & other related material will be in Mills scope.

1.1(15) Daily/Weekly/ fortnightly/ Monthly progress Review report asked by the Mill Management/Haryana Sugar Federation/State Govt. shall be submitted to the Mill within given timeframe by the bidder.

1.2 (16) On issuing of work order, the bidder will check and submit its technical assessment report pertaining to the pending jobs if any, in consultation with technical team of Shahabad Sugar Mill. If No report received within 15 days, in that case any such complaint at a later stage shall not be entertained for obtaining the required performance parameters.

1.1 (17) Routine Civil/ masonry work of plant i.e. refractory work of boiler & sulphur furnace, repair of pipeline supporting columns in main & mini spray ponds & injection channel including its flooring and walls brick work, repair work of RCC water reservoir tank at boiler, repair of pits of condenser tail pipes, repair work of existing drains of factory, repair/ construction of enclosures in pumping area of water/ juice/ syrup/ massecuite and molasses etc., repairing of existing floor area, repairing in workers toilets, repairing work in control rooms & their stair cases, repairing work of building walls of factory area, repairing work of RCC clarifier/ sludge beds/ aeration tanks/ pits/ treated water storage CC tank at both ETP and plaster repairing work of machinery foundations shall be scope of bidder. Any renovation related work is excluded.

1.1 (18) All plumbing related job works across the factory and associated facilities shall be within the scope of the Bidder. This includes plumbing work in the factory premises, mill colony, all offices, guest house, Kisan Rest House, cane yard, Kisan Sewa Kendra, mill petrol pump, workers canteen, dispensary and workers toilets/washrooms etc.

1.1(19) During the off-season and crushing season expenditure incurred on rewinding of electrical motors and alternators (including spare and standby units) shall be borne by the Mills and will remain outside the bidder's scope of work. However, routine maintenance activities such as cleaning, servicing, bearing greasing/replacement and varnishing etc. of said motors shall be carried out by the bidder as part of the maintenance scope.

1.1 (20) During the off-season and crushing season expenditure incurred on rewinding of electrical transformers shall be borne by the Mills and will remain outside the bidder's scope of work.

8. Repair Maintenance Work during Off season 2027:-

1.1(1) Mill will provide the existing available technical staff of Engineering and Manufacturing Department available with the Mills. The Existing available permanent manpower of the mills in 2027 for the repair, maintenance and operation of the plant during off-seasons is 76 person of Engineering Department and 12 person of Manufacturing Department. To repair, maintenance and operation of the Plant in a smooth manner rest of remaining required staff/manpower as per the Sanctioned Staff Strength of The Shahabad Coop. Sugar Mills/ as per site requirement shall have to be arranged by prospective bidder to run the plant successfully as per performance parameters as desired by the Mills. The Existing manpower of the mills will be utilized by the bidder at the relevant post looking at suitability by the Bidder and balance vacant manpower will be arranged by Bidder with the consent of Mills. Vacant post manpower is mandatory to be deployed by the bidder. Vacant posts number is not a benchmark if more manpower required then the same will be arranged by bidder to ensure

satisfactory repair, maintenance and operation work. Bidder ensures to engage and depute at least one Technical Head of Engineering and One of Manufacturing along with Engineering section incharges at Mill, Boiler, Turbine, Co-generation, Electrical, Instrumentation, Boiling House and Manufacturing Chemists at Clarification, Evaporator, Pan, Centrifugal, ETP and sufficient manpower/staff to carry out all repair & maintenance work well in time during off-season to run the plant efficiently during crushing seasons. The workers out of the above list deputed otherwise, absent/death/retirement/leave during the entire contract period causing any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of deputed/engaged qualified/ trained/ efficient/ experienced manpower to the mill management 02 days prior to enter into contract.

The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case of shortfall is found more than 10% then a pro-rata deduction for whole of the month in the monthly bill will be done irrespective of the fact whether Sugar Mill Plant is technically performing or not.

Biometric attendance for all deputed staff is mandatory. The arrangement and installation of biometric machines shall be the responsibility of the bidder. A time office clerk appointed by the bidder will record attendance at the specific office location designated by the mill. The mill reserves the right to verify online attendance records at any time. Attendance records of the bidder's employees shall be verified on a daily and shift-wise basis by the Mill's Time Office Clerk & HTK.

1.1(2) For smooth functioning of the Mill, off-season repair & maintenance of all sections/stations from cane unloading to final sugar bagging involving all civil, mechanical, electrical, Co-generation & instrumentation including DCS work from cane unloader to final molasses storage tank including sugar stacker, belt conveyor system, ETP & all juice, water & molasses weighing scales must be checked and repaired by the BIDDER.

Note:

1. All fabrication and erection job works during off-season and crushing season are excluded from the scope of this contract.
2. All major modification works during the off-season and crushing season including mechanical, electrical and instrumentation are excluded from the scope of this contract.
3. Services of OEMs, authorized dealers, AMC providers or any other Service Engineers required during the off-season and crushing season are excluded from the scope of this contract. However, the successful bidder shall provide all subordinate, skilled and highly skilled manpower required to support and assist such service engineers from authorized dealers, OEMs, AMC or other service providers.
4. All DCS and ACFC software programming and configuration activities are excluded from the scope of this contract.

The Bidder shall depute the separate trained manpower/ Reputed Professional service provider for repair, maintenance, overhauling & routine checking for the following mentioned jobs during off season and crushing season:-

Pneumatic/ manual cut over/ discharge valves of process section.
All Exhaust/ vapour valves of process section.

Main & mini Spray ponds & mist cooling system's UPVC nozzles/ clusters/ pipes etc.
All nozzles of condensers & tail pipes of process section.
All planetary gear boxes of the plant.
Complete cleaning, repair & maintenance of all PVC pipe lines, UPVC nozzles, PVC fills & catchers etc. of 03 cell RCC cooling tower with its zero liquid surplus system.
Boiler ash & bagasse belt conveyors, ash screw conveyors, bagasse screw feeders & bagasse extractors, rotary air lock valves and soot blowers etc.
Chain of main & auxiliary cane carriers, MRC, IRC and bagasse carriers & elevators.
Boiler travelling grate
Requirement of high pressure IBR welder as & when required
Replacement and Jointing of worn out all rubber belts conveyors of factory i.e. cane belt, ash, bagasse, mud, sugar, sugar bag, sugar stacker & ETP etc. (Hot /cold vulcanizing)
Checking, testing and filling of nitrogen gas accumulators of mills & turbine hydraulic system.
Maintenance & servicing of air conditioning units of all plant control rooms, mills offices, guest house, bio laboratory, mills petrol pump and KisanSewaKendera etc.
Checking, testing, repair & maintenance of 66 kV grid connected switch yard including all HT cable of plant.

1.1(4) The BIDDER shall prepare a detailed work assessment report and submit the same along with tentative time schedule to the MILL immediately after receipt of the LOI/ final work order and after assessing the availability of materials in the Mill's store. The report shall include details of the required consumables, spare parts, machinery parts, store materials, machinery, and any other items necessary for execution of the work.

In case any material or component is of long delivery nature, the BIDDER shall intimate the MILL at least sixty (60) days in advance prior to its intended use, to ensure timely procurement and uninterrupted execution of work.

1.1(5) All consumables and materials except tools and tackles required by the BIDDER for repair of the Plant shall be arranged by the Mill as and when required. BIDDER submits the material requirement to the Mill at least 30 days in advance considering the Mill's procurement lead time.

1.1(6) All Chains i.e. Cane Carrier, Main Rack Carrier, All Inter Rack Carriers, Bagasse Elevator, Main Bagasse Carrier and Boiler Travelling shall be mandatory completely dismantled, repaired and assembled after crushing season 2026-27 is mandatory.

1.1(7) All the repair & maintenance work of the MILL in Off season 2027 should be completed by the BIDDER latest by 15th October 2027.

1.1(8) If any of the machinery items is required to be replaced by new one, the same shall be decided jointly by BIDDER and Mills. In case any dispute /disagreement amongst the two, the decision of Managing Director, The Shahabad Cooperative Sugar Mills Ltd. shall be final.

1.1(9) Work related with cleaning along with sanitation of factory area including cane carrier, different houses/ sections their all floors & roof, entire roads of factory premises, all Control Rooms, all drains in plants, all cable trenches / trays (opened, cleaned & covered) cleaning of Quad bodies/ Juice Heaters/ Pans, Drier House, complete

Boiler Internal & External Cleaning, tube cleaning of boiler APH, Boiler raw water RCC storage tank, RO water storage tank, pits of bagasse belt conveyors, Mill house, TG Oil cooler, TG Condenser, alternator cooling tubes, Spray Pond, 3-cell RCC Cooling Tower with its PVC fills & nozzles & pumps catchers, Zero liquid surplus water system, Lagoon, ETP & its surrounding area & all workers toilets/ washrooms etc. and shifting of scrap from different houses to scrap yard during off season and crushing season shall be in the scope of work of BIDDER.

1.1(10)The workshop shall be operated and managed by the bidder during both off season and seasons. During the crushing season, manpower shall be deployed in the workshop on a 24x7 basis. The overhauling and maintenance of all workshop machinery including lathe machines, shaper, planer, drilling machines, power hacksaw etc. shall be the responsibility of the bidder.

1.1(11)Store material handling i.e. unloading of wood, cement, M.S. iron & steel, pipe lines, vapour pipe lines, pumps, motors, machinery, lubricants, gunny/ P.P.bags, including loose & packed materials, filling lime & sulphur in bags & shifting inside factory at different locations, shifting of chemical bags & chemical drums for store to evaporator station, pan station of any other place in the mills, lime & sulphur shall be shifted to the lime slacker & sulphur furnace, regular cleaning of all the racks inside store, shifting of materials inside store, proper storage of materials in store racks, hand over / issue the required materials to factory employees as per requirement / as per store issue slip materials, proper receipt & storage of old materials hand over, any other job required to carry out the work of store handling etc. shall be in the scope of BIDDER.

1.1(12) To obtain NOC from Air and Water Pollution Control Board, Chief Inspector Boilers, Chief electrical Inspector, Equipment safety inspector, electricity board related correspondence etc. will be in the scope of the Bidder and statutory & required Fees will be deposited by the Mill.

1.1(13) The Factory has industrial power connections from HVPNL, which shall be used only for auxiliary supply purposes. The BIDDER shall utilize grid power and DG sets for carrying out testing and trial. The BIDDER shall ensure that the maximum demand of the HVPNL connection does not exceed the contracted load. In the event of any excess maximum demand, any penalty levied by HVPNL shall be borne by the BIDDER.

1.1(14)All DG sets and Tube wells installed in factory which are being used for maintenance & operation purpose of Mill will be maintained and run by the BIDDER as per direction of MILLS Technical Staff except requisite consumables, spares/ parts/ HSD/ electrical power etc.

1.1(15)During both the off-season and crushing season, if any job work related to the Mill workshop is required to be carried out at an external agency's workshop, the expenditure incurred towards labor and transportation shall be borne by the BIDDER.

1.1(16) After repair & maintenance of equipment's painting work will be in the scope of bidder (excluding the structure).Painting work will be carried out by bidder as per direction of Mill. Required Paints & other related material will be in Mills scope.

- 1.1(17) Daily/Weekly/ fortnightly/ Monthly progress Review report asked by the Mill Management/Haryana Sugar Federation/State Govt. shall be submitted to the Mill within given timeframe by the bidder.
- 1.1(18) During Off-season Thickness monitoring, Ultrasonic testing, MPI, etc. of boiler tubes, ducting, shafts, gears, crown pinions, shell of bodies and vapor pipe lines etc. will also in bidder scope. Bidder should submit all testing reports to Chief Engineer and Chief Chemist Office of mills.
- 1.3 (19) On issuing of work order, the bidder will check and submit its technical assessment report pertaining to the pending jobs if any, in consultation with technical team of Shahabad Sugar Mill. If No report received within 15 days, in that case any such complaint at a later stage shall not be entertained for obtaining the required performance parameters.
- 1.2 (20) Routine Civil/ masonry work of plant i.e. refractory work of boiler & sulphur furnace, repair of pipe line supporting columns in main & mini spray ponds & injection channel including its flooring and walls brick work, repair work of RCC water reservoir tank at boiler, repair of pits of condenser tail pipes, repair work of existing drains of factory, repair/ construction of enclosures in pumping area of water/ juice/ syrup/ masscuite and molasses etc., repairing of existing floor area, repairing in workers toilets, repairing work in control rooms & their stair cases, repairing work of building walls of factory area, repairing work of RCC clarifier/ sludge beds/ aeration tanks/ pits/ treated water storage CC tank at both ETP and plaster repairing work of machinery foundations shall be scope of bidder. Any renovation related work is excluded.
- 1.2 (21) All plumbing related job works across the factory and associated facilities shall be within the scope of the Bidder. This includes plumbing work in the factory premises, mill colony, all offices, guest house, Kisan Rest House, cane yard, Kisan Sewa Kendra, mill petrol pump, workers canteen, dispensary and workers toilets/washrooms etc.
- 1.1(22) Job work related to the repair, maintenance, testing & trial etc. of the ESP along with allied equipment shall be in the scope of the BIDDER and shall be carried out only through the OEM, (ISGEC Heavy Engineering Ltd.), however consumables and materials required for the same shall be in the Mill's scope.
- 1.1(23) During the off-season and crushing season expenditure incurred on rewinding of electrical motors and alternators (including spare and standby units) shall be borne by the Mills and will remain outside the bidder's scope of work. However, routine maintenance activities such as cleaning, servicing, bearing greasing/replacement and varnishing etc. of said motors shall be carried out by the bidder as part of the maintenance scope.
- Servicing of specialized motors, e.g. HT motors, DC motors, FWP motors, centrifugal machine motors, mill drive motors (690 V), cane unloader bridge motors and spray & injection pump motors etc. shall be included in the bidder's scope of work. However, such servicing shall be carried out through an experienced external expert service provider having a suitable workshop and adequate in-house testing facilities including Tan Delta and capacitor test setup up to 12 kV, surge comparison tester (range up to 10 kV), digital inductance meter, polarity testing equipment, oven for preheating of size not less than 3600×3600× 3600 mm with digital control and a fully automatic vacuum impregnation plant of size 3.0 m diameter and 3.20 m depth with a storage tank of 100 liters.
- The bidder shall submit copies of work orders with documentary proof substantiating that the workshop meets the required specifications and capabilities as mentioned above.
- 1.2 (24) During the off-season and crushing season expenditure incurred on rewinding of electrical transformers shall be borne by the Mills and will remain outside the bidder's scope of work. However, routine maintenance activities such as oil dehydration, cleaning, testing, checking and inspection of the same shall remain in the bidder scope.

Operation of MILL during crushing season 2026-27 and 2027-28:-

The scope of work for smooth and efficient operation of the plant, which includes operation of 5000 TCD Double sulphitation plant & 24 MW Co-generation Plant during the season 2026-27 will involve all jobs required for operation of plant at all the stations and sections from unloading of sugarcane to bagging and Stacking of sugar including entire process house, Co-gen plant, Electrical, Instrumentation with DCS, 02 nos Effluent treatment plant as per CPCB/HSPCB norms, ESP, Workshop, handling of Bagasse, handling of ash and pressmud up to loading area, packing & handing of sugar in 50 kg/10 kg/5 kg/2 kg/1 kg HDPE bags, shifting & stacking the same in godowns. Operation of Air and Water pollution control system including online data transfer, DG sets, Firefighting system, Tubewells, Molasses/Sugar/Juice & water weighing scale operation, switchyard, preparation of Export-Import energy bill, collection and cleaning of scattered cane at donga and trolley & trucks of unloaded cane and cleaning/sanitation of factory premises including roads, collection of scattered bagasse and ash nearby area of boiler and washrooms etc. including civil, will be in the scope of Bidder except the following jobs.

1. Sale of Sugar
2. Sale of Molasses
3. Sale of Bagasse, boiler ash and Pressmud
4. Sale of scrap
5. Supply of sugarcane upto Cane carrier
6. All administrative works.

Beside as mentioned in the tender form as and where required Bidder should note please:-

01. Analysis ~~of the~~ laboratory shall be done by MILL and DMR (Daily Manufacturing Report) as well as DWR (Daily Working Report) and other required laboratory reports will also be signed by senior technical officer of the bidder. Bidder may depute their laboratory staff independently to counter check the analysis report. Manpower deputed by bidder at laboratory for counter checking will be paid by the bidder itself.

02. All consumables and spares required for smooth operation of the Plant will be provided by the Mill.

03. During the crushing season, if any dispute arises regarding net juice and cane crushed, the BIDDER may depute its manpower to check/ verify the cane weightment and all expenses associated with such deputation shall be borne by the BIDDER.

04. Boiler Stack emission & Effluent treatment plant of sugar mill will be operated as per CPCB/ HSPCB guidelines to achieve the prescribed parameters including online data transfer to CPCB/ HSPCB Server. Any chemicals/ fertilizers etc. required to run the ETP efficiently will be provided by the mills. If any violation of pollution norms occurred due to negligence of bidder or any fine/ penalty imposed due to failure of any sampling or violation of CPCB/ HSPCB guidelines then bidder will be fully responsible for the same.

05. All log books and parameters of different stations should be maintained regularly & day wise print out of DCS

System installed at different stations should be taken & kept on records shall be in bidder scope.

06. Day wise declaration of power export to electricity should be provided by bidder to Mill as per guidelines of SLDC and online data transfer to SLDC server.

07. The shifting of sugar bags from the sugar drier house to any sugar godown/ temporary godown located within the factory campus shall be within the scope of the BIDDER. The BIDDER shall arrange all required manpower/labour, tractor-trolleys along with diesel and drivers for round-the-clock transportation of sugar bags from the sugar drier house to the sugar godowns. Sugar stackers shall be provided by the Mill on an “as and where available” basis; however, the repair and maintenance of the sugar stackers and associated equipment shall be within the scope of the BIDDER. Spare parts required for such repair and maintenance shall remain within the scope of the Mill. Transportation and handling of sold sugar shall remain outside the scope of the BIDDER and shall be managed by the Mill

08. Sugar bag stacking height in sugar Godowns shall be maintained as per the directions of Mills Chief Chemist & Sugar Sales Manager.

09. Regular cleaning, shifting & feeding of scattered cane into the cane carriers from the cane weighment area to the cane carriers, surrounding area of the preparatory devices, pits of both cane carriers, structural columns of the cane carriers, cane elevators, Mills bed, juice pumping area and mills gallery etc. including removal of leftover cane remaining after unloading of cane wagons i.e. trolleys & trucks shall be within the scope of the BIDDER. Regular cleaning and shifting of scattered bagasse to the bagasse yard from bagasse elevators, carriers and belt conveyors including their platforms, driving arrangements and installation pits as well as from all mill & boiler house (New & old) area, all working platforms, roofs of control rooms, D.B. & panel rooms and floors shall be within the scope of the BIDDER.

Regular cleaning, shifting & feeding of scattered ash in to main ash conveyor from all boiler area drains, complete ash handling system i.e. belt conveyors/ screw conveyors/ash hoppers/floor area from boiler furnace to chimney up to ash loading point shall be within the scope of the BIDDER.

Regular cleaning of spilled syrup, massecuite, molasses and sugar etc. in the complete Process section, along with collection and feeding of the same into the appropriate equipment such as tanks, magma mixers, sugar hoppers, sugar melters & belt conveyors etc. shall be within the scope of the BIDDER.

10. Sanitation jobs i.e. regular shift wise sweeping, brooming & moping of complete factory area (Mill House, Workshop, new & old Boiler & Power houses, Turbine section, Boiling house, Pan station, Centrifugal section, Sugar Drier House, DG set area, nearby area of both ETP station, spray pond & Molasses Tanks etc.) floors, control rooms, all working platforms, walkways & workers toilets & washrooms shall be in the scope of the bidder. For easy operation regular cleaning of glasses of windows & doors of the control rooms including their partition walls shall be in scope of the bidder

Regular cleaning of factory area internal & external roads and drains & shifting of malba/ waste to the designated location as instructed by the Mills shall also be under the scope of the bidder.

11. The bidder shall be responsible for the reprocessing of brown sugar, raw sugar & moist sugar available in Mills stock. Shifting of such sugar for reprocessing shall be in the scope of bidder from Mills sugar godowns.
12. If any hydra crane, JCB, tractor trolley or similar equipment is required for repair, maintenance and operation during the off-season or crushing season, the same shall be within the scope of the Bidder.
13. The operation and maintenance of the fire-fighting system shall be under the scope of the bidder on a 24/7 basis. The bidder shall deploy the required manpower during any flood or fire incident within the factory premises. Fire-Fighting system should be maintained and operated round the clock by bidder for the safety of plant and mock drill to be carried out on fortnightly basis. Safety equipments i.e. safety goggles, dress, ID card, safety shoes, helmets belts, gloves, masks and ear puffs to be provided by the bidder.
14. Tube cleaning of FFE's & Robert type bodies shall be carried out within 10-12 days/ as per recommended schedule as demanded by the concerned section.
15. Tube cleaning of juice heaters shall be carried out within 4-5 days/ as per recommended schedule as demanded by the concerned section.
16. Tube cleaning of Pans shall be carried out within 30-35 days/ as per recommended schedule as demanded by the concerned section.
17. During crushing season operation, repair& maintenance of the ESP along with allied equipment shall be in the scope of the BIDDER and shall be carried out only through the OEM, (ISGEC Heavy Engineering Ltd.), however consumables and materials required for the same shall be in the Mill's scope.
18. Repair, testing & operation of 66 kV grid connected switch yard including all HT cable of panel.
19. The list of sanctioned manpower is attached as **Annexure 'B'** however the number of manpower deployments shall not be limited to those mentioned therein.
20. Tentative details related to repair, maintenance, and operation jobs for the Engineering Department attached as **Annexure 'C' & 'D'** however, the scope is not limited to the jobs mentioned therein.
21. Tentative detail related to operation jobs for Manufacturing department& Sugar handling etc. attached as **Annexure-'E'** however, the scope is not limited to the jobs mentioned therein.

2.0 Manpower:

2.1 Mill will provide the existing available technical staff of Engineering and Manufacturing Department available with the Mills. The Existing available permanent and Seasonal manpower of the mills in season 2026-27 for the operation of the plant is annexed as Annexure-A. Repair, maintenance and operation of the Plant in a smooth manner rest of remaining required staff/manpower as per the Sanctioned Staff Strength of The Shahabad Coop. Sugar Mills/ as per site requirement shall have to be arranged by prospective bidder to run the plant successfully

as per performance parameters as desired by the Mills. The Existing manpower of the mills (as per list annexed as Annexure-A) will be utilized by the bidder at the relevant post and balance vacant manpower will be arranged by Bidder with the consent of Mills. Vacant post manpower is mandatory to be deployed by bidder. Vacant posts number is not a benchmark if more manpower required then the same will be arranged by bidder to ensure satisfactory repair, maintenance and operation work. Bidder ensures to engage and depute at least one Technical Head of Engineering Side and One of process side and sufficient Engineers, Chemists and technical manpower/staff to run the plant efficiently in all manners comprising four shifts i.e. A, B, C, R& General shift. The workers out of the above list provided by sugar mill deputed otherwise, absent/death/retirement/leave during the entire contract period, causing any kind of shortfall shall have to be arranged/engaged by the contractor. The successful bidder shall have to submit list of required qualified/trained/efficient/experienced manpower to the mill management before three weeks of starting of the crushing season and if any change/addition as and when takes place. The Mill Management reserves the right to verify the qualification certificates of the manpower deployed by the Bidder. The mill management shall be at liberty to physically check the manpower deployed as per the list provided, in case shortfall of more than 10% is found then a pro-rata deduction for whole of the month in the monthly bill will be done irrespective of the fact whether Sugar Mill Plant is technically performing or not.

2.2 The replacement of technical Staff/Manpower provided by mill retiring/absent/leave/death/resign during the tenure of Contract will be in the scope of Prospective Bidder/Bidder.

2.3 BIDDER shall provide technically sound and well qualified experienced staff as per norms and qualification determined in Mills applicable Service Rules. If due to some reason the requisite qualified and experienced staff is not available then Bidder shall provide well experienced technical staff of Sugar Industry after getting in-writing approval from Managing Director, Shahabad Coop. Sugar Mills Ltd. Shahabad.

2.4 The BIDDER should provide a list of key technical experts, maintenance, and operating staff station wise indicating their qualification/experience to the MILL at the time of engage in gate site.

2.5 The BIDDER shall depute Senior Technical Officers well-versed in the operation and maintenance activities of sugar mills and cogeneration plants, having experience in equivalent plant configurations to monitor the day-to-day routine activities of the plant.

2.6 All persons engaged by the BIDDER directly or indirectly shall be employees of the BIDDER and it is obligatory on the part of the BIDDER to cover all their employees under Workman Compensation Act 1923 and other applicable Labour Laws on time-to-time basis.

2.7 The BIDDER shall be solely responsible for deduction and remittance of EPF, ESI, Labour Cess, and any other statutory liabilities in respect of its employees and sub-contractors (if any). The MILL shall bear no responsibility for any monetary claims or payments to the BIDDER's employees and sub-contractors (if any) or to any statutory authorities under the Employees Provident Fund, Family Pension Fund or any other applicable labor laws. The BIDDER shall mandatorily submit, along with each running/monthly bill all details

of statutory deposits related to attendance, EPF, ESI and Labour Cess including challans, Form 11, undertakings regarding dues of employees/ sub-contractors, Aadhaar cards and any other supporting documents as required.

- 2.8 Group Insurance Policy of employees of the BIDDER will be the responsibility of the BIDDER and MILL will not be responsible for any claim / compensation which may be due to unforeseen and unfortunate incident/accident to be in future, whereas if any compensation/settlement amount would require to be made under the Workmen Compensation Act, 1923 or any other statutory applicable labour laws, the Mill shall be indemnified by the Bidder completely. The Bidder shall be solely responsible in all/any case of claim/compensation in this regard.
- 2.9 In the event of any accident/casualty etc. of the employees of the BIDDER, Bidder representative/s shall be solely responsible to take prompt action to hospitalize the said employees along with any other action required in this regard. The MILL will not be responsible for any kind of unfortunate incident/accident as BIDDER will ensure all safety measures for its employees.
- 2.10 The BIDDER shall ensure that the age of deputed employees will not be less than 18 years in any case.
- 2.11 The BIDDER shall withdraw/ replace those employees, who are not performing the work to the satisfaction of MILL or for their misconduct and for any other reason, as indicated by the MILL in writing to the BIDDER within 48 hours of the said communication. In order to ensure quality repair/ maintenance of the plant, BIDDER should not replace/withdraw the maintenance staff without consulting the MILL authorities.
- 2.12 In the event of shortage or inefficiency of manpower leading to delays or non-completion of maintenance jobs within the stipulated time schedule, the MILL shall have the right to get the work executed through a third party at the risk and cost of the BIDDER without the consent of the bidder.
- 2.13 The BIDDER shall ensure 100% reprocessing of brown sugar, BISS and scrapped sugar of the previous year, including shifting of the same from the storage location to the designated area.
- 2.14 BIDDER shall abide at all times by all existing enactments and rules made there under, regulations, notifications and bye-laws of the State or Central Government or Authority and all labor Law(including rules),regulations, by laws that are applicable, The BIDDER shall keep the MILL indemnified in case any action is taken against the MILL by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, the regulation or notifications including amendments thereof. If the MILL is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/ bylaws/ Acts/ Rules/ Regulations including amendments if any, due to any act or omission on the part of the BIDDER, the MILL shall have the right to recover said amount by all means/proceedings including deduction the money due to the BIDDER & including invocation of Performance Security if due any. The MILL shall have right to recover

from the BIDDER any sum required or estimated to be required for making good the losses or damages suffered by the MILL. The employees of the BIDDER or any person employed for any work indicated in this Agreement or indicated thereto, in no case shall be treated as the employees of the MILL at any point of time, in any manner whatsoever.

- 2.15 Sub-letting of repair, operation, and maintenance activities shall not be permitted, except for specific services such as ash handling, sugar handling, bagasse handling, press mud handling up to loading point, sanitation, etc. The Effluent Treatment Plant (ETP) shall be operated only through an authorized/ experienced/ qualified agency, in consultation with the mill management. All operations must comply with the norms and guidelines prescribed by the Central Pollution Control Board (CPCB) and the Haryana State Pollution Control Board (HSPCB), including requirements related to manpower.

The following manpower shall be mandatorily provided during the season for contractual jobs. Any additional manpower required beyond the specified deployment shall also be within the scope and responsibility of the bidder.

Sr.No.	Work Description	Manpower Category	Manpower Required				Remarks
			Shift A	Shift B	Shift C	Shift R	
1	Donga Cleaning	Un-skilled	6	6	6	3	01 No. Tractor, trolley(if required)
2	Mill bed coolie	Un-skilled	2	2	2	1	
3	Cleaning & shifting of bagasse & cane from complete mill house from cane leveller to bagasse yard including MRC & bagasse carriers	Un-skilled	2	2	2	1	01 No. Tractor, trolley (if required)
4 a	Cleaning of bagasse belt conveyor pits/ structure.	Unskilled	2	2	2	1	01 No. Tractor, trolley (if required)
b	Bagasse Handling	Skilled drivers	3	3	3	1.5	03 Nos. Tractors/ karah/ cultivator & required diesel round the clock.

5	Ash Handling area cleaning work i.e. cleaning of boiler area drains, accumulation, cleaning & shifting of scattered ash at Boiler house.	Unskilled	2	2	2	1	01 Nos. tractors/ karrah with trolley including required diesel round the clock.
6	Boiler coolie	Unskilled	2	2	2	1	
7	Tube Cleaning of all bodies i.e. FFE, Pan, vapour cell, Quad Bodies and juice heaters etc.	Semi-skilled	8				
8	Milk of lime Preparation and lime grit handling.	Semi-skilled	6	6	6	3	
9	Chemical, Lime & sulphur unloading and shifting to required stations.	Unskilled	As per requirement				Job as detailed above
10	Sugar Handling	Unskilled	As per requirement along with tractor, trolley, drivers and diesel				Job as detailed above
11	Cleaning, chipping & painting work of process section equipments. Cleaning & white washing work of spray pond, injection channel & ETP plants.	Unskilled	As per requirement				Job as detailed above
12	Plant Sanitation i.e. control room, drains, toilets & floor etc.	Unskilled	4	4	4	2	Job work as mentioned above.
	Housekeeping/ Cleaning of spillage massecuite, molasses, sugar, cane juice & syrup etc.	Unskilled	8	8	8	4	

2.16 Any loss or damage to vehicles of farmers, transporters or contractors arising due to the faulty functioning or negligence of the BIDDER's manpower shall be solely borne by the BIDDER.

2.17 During the crushing season, if any equipment or machinery becomes jammed or overflowed for any reason, the cleaning and reprocessing of the accumulated sugar, along with the repair and restoration of the affected equipment or machinery, shall be within the scope of the bidder.

3.0 Accommodation

- 3.1 Accommodation for the staff of the Bidder may be provided by the Mill on a paid basis, subject to the availability of such accommodation. Electricity & water for the Bidder's staff quarters shall also be provided on a chargeable basis.
- 3.2 The Bidder's staff shall ensure proper use of electricity and water and shall not misuse the same. In the event of any theft, damage, or loss to electrical, sanitation, or general fittings, the Bidder shall be responsible for repair or replacement of such items at its own cost.
- 3.3 All other arrangements, including but not limited to food, medical facilities, and transportation, shall be made by the Bidder at its own cost and responsibility.
- 3.4 In case the accommodation provided by the Mill is required (either wholly or partially) by the Mill Management, the Bidder shall vacate the same within 15 (fifteen) days from the date of written notice issued by the Mill Management.

List of Engineering Department Officers/Officials

Sr.No.	Name of Employee	Designation	Date of Retirement
1	GURMAIL SINGH	MOTOR PUMP ATTD. (BH)	30-06-2026
2	BALVINDER	CANE UNLOADER OPTR.	31-07-2026
3	JAGJIT SINGH	CANE UNLOADER OPTR.	31-07-2026
4	SAT PAL	ELECT. FOREMAN	31-08-2026
5	BALBIR SINGH	HELPER (E)	30-09-2026
6	MADAN LAL	OILMAN	31-10-2026
7	NARINDER SINGH	KHALASI	31-10-2026
8	TILAK RAJ	MOTOR PUMP ATTD. (BH)	31-10-2026
9	VINOD KUMAR KANOJIA	WORKSHOP ENGINEER	31-10-2026
10	RAMESH KUMAR	FITTER HELPER (BH)	30-11-2026
11	RAM CHANDER	FEED PUMP ATTD.	31-12-2026

12	MAM CHAND	FITTER HELPER (MH)	31-01-2027
13	PARSU RAM	PH TURBINE ATTD.	31-01-2027
14	HARINDER NONIYA	KHALASI	31-03-2027
15	JASBIR SINGH	FITTER HELPER (MH)	31-05-2027
16	DHARAM CHAND	MOTOR PUMP ATTD. (BH)	30-06-2027
17	YOGDHYAN	KHALASI	30-09-2027
18	SUKHBIR SINGH	KHALASI	30-09-2027
19	PADAM SINGH	OILMAN	31-10-2027
20	RAM KUMAR	MOTOR PUMP ATTD. (BH)	31-10-2027
21	ATMA YADAV	KHALASI	31-12-2027
22	KARAMBIR	S.B.A.	31-12-2027
23	SATBIR SINGH	PH TURBINE ATTD.	28-02-2028
24	MAGGI RAM	MOTOR PUMP ATTD. (MH)	29-02-2028
25	RAMCHARAN	CANE UNLOADER OPTR.	29-02-2028
26	JASPAL SINGH	OILMAN	31-03-2028
27	SHYAM SINGH	S.B.A.	30-04-2028
28	UMASHANKAR PARSAD	KHALASI	30-04-2028
29	PREM SINGH	FITTER (CF)	31-05-2028
30	RAM SARISH	OILMAN	31-05-2028
31	RIPU DAMAN SINGH	ASSTT. ENGINEER(M)	31-07-2028
32	KRISHAN LAL	MASON	30-09-2028
33	MANAJI	KHALASI	31-10-2028

34	BIRBHAN	WATERMAN-R	30-11-2028
35	JAI PAL	KHALASI	30-11-2028
36	JASBIR SINGH	COOLIE ENGINEERING	31-01-2029
37	RAM SINGH	KHALASI	31-01-2029
38	KRISHAN LAL	FIREMAN	28-02-2029
39	IQBAL SINGH	BOILER ATTD.	31-03-2029
40	BALDEV SINGH	MOTOR PUMP ATTD. (BH)	31-05-2029
41	KARAM CHAND	MOTOR PUMP ATTD. (BH)	31-07-2029
42	SHER SINGH	FITTER HELPER (MH)	30-11-2029
43	KRIT PAL SINGH	FITTER HELPER (BH)	31-12-2029
44	RAM KUMAR	MOTOR PUMP ATTD. (BH)	28-02-2030
45	AMAR NATH	CANE UNLOADER OPTR.	31-03-2030
46	SUBHASH SINGH	DCS OPERATOR (M)	30-04-2030
47	MALKIT SINGH	CANE UNLOADER OPTR.	30-06-2030
48	VINOD KUMAR	BOILER ATTD.	28-02-2031
49	JASBIR SINGH	FITTER (CF)	31-03-2031
50	KADAM SINGH	PH TURBINE ATTD.	31-05-2031
51	JANAK YADAV	COOLIE ENGINEERING	30-06-2031
52	CHAMAN LAL DHIMAN	BOILER OPERATION ENGINEER	30-11-2031
53	HARKESH	COOLIE ENGINEERING	31-01-2032
54	ISHWAR CHAND	MOTOR PUMP ATTD. (BH)	30-04-2032
55	KISHORE KUMAR	BOILER CHEMIST	31-07-2032

56	SANJIV KUMAR	BOILER ATTD. .	31-12-2032
57	YUSUF	COOLIE ENGINEERING-R	31-07-2033
58	MUNISH KUMAR	DY. CHIEF ENGINEER (M)	30-11-2033
59	SUMITRA DEVI	COOLIE ENGINEERING	31-12-2033
60	RIPU DAMAN SINGH	ASSTT. ENGINEER(M)	30-06-2035
61	RAJENDER SINGH	MOTOR PUMP ATTD. (MH)- R	31-07-2035
62	SHATRUGHAN SINGH	INST.MECHANIC	30-11-2035
63	GURCHARAN SINGH	COOLIE ENGINEERING	30-04-2036
64	RAJ KUMAR	CANE UNLOADER OPTR.	30-04-2036
65	MAMTA RANI	COOLIE ENGINEERING	31-05-2038
66	SATBIR SINGH	DY. CHIEF ENGINEER (C)	31-10-2038
67	RAVINDER KUMAR	WIREMAN	28-02-2040
68	SOUNAK GHOSH	ASSTT. ENGINEER INSTRUMENT	31-07-2040
69	VIPINDER KUMAR	ASSTT. ENGINEER(M)	30-11-2040
70	SATPAL	COOLIE ENGINEERING	31-05-2041
71	NAVEEN KUMAR SHARMA	TURBINE ENGINEER	30-09-2041
72	VARUN TRIPATHI	A.E. (ELECTRICAL)	30-11-2043
73	KULDEEP SINGH	MOTOR PUMP ATTD. (BH)	31-12-2044
74	SATWINDER SINGH	WIREMAN	30-11-2045
75	YASHVIR	A.E. INST. COGEN	28-02-2047
76	BASANT SINGH	COOLIE ENGINEERING	31-03-2047
77	AJAY KANT	DCS OPERATOR (E)	28-02-2048

78	AJAY KUMAR	WIREMAN	31-12-2048
79	NARENDER SINGH	HELPER (E)	30-04-2056

List of Manufacturing Department Officers/Officials

Sr.No.	Name of Employee	Designation	Date of Retirement
1	JAI PAL	VACUUM FILTER ATTD.T.	30-09-2026
2	RAM KARAN	MANUFACTURING COOLIES	31-10-2026
3	VINOD KUMAR	MANUFACTURING COOLIES	31-10-2026
4	RAMA NAND YADAV	CENTRIFUGAL OPERATOR	31-12-2026
5	HIRA LAL	MANUFACTURING COOLIES	31-12-2026
6	SURESH KUMAR	MANUFACTURING COOLIES	31-12-2026
7	DINESH KUMAR	LAB BOY	31-01-2027
8	NATHUNI CHAUHAN	MANUFACTURING COOLIES	28-02-2027
9	BALBIR SINGH	MANUFACTURING COOLIES	31-03-2027
10	BALDEV SINGH	MANUFACTURING COOLIES	31-05-2027
11	LALLAN GIRI	P.H. RECORDER	31-05-2027
12	RAJ KUMAR	EVAPORATOR OPERATOR	31-05-2027
13	OM PAL	MANUFACTURING COOLIES	30-06-2027
14	ROZADIN	MANUFACTURING COOLIES	30-11-2027
15	RAJ PAT	ASSTT. PANMAN	31-12-2027
16	JASBIR SINGH	MANUFACTURING COOLIES	31-03-2028
17	RAM PAL	ASSTT. PANMAN	31-03-2028
18	AMRIK SINGH	MANUFACTURING COOLIES	30-04-2028
19	BABU RAM	MANUFACTURING COOLIES	30-04-2028
20	NARESH KUMAR	MANUFACTURING COOLIES	30-04-2028
21	KARAM SINGH	MANUFACTURING COOLIES	31-05-2028

22	MOHAN LAL	MANUFACTURING COOLIES	31-05-2028
23	MUNNA CHAUHAN	MANUFACTURING COOLIES	31-07-2028
24	SUKHPAL	MANUFACTURING COOLIES	30-11-2028
25	PHOOL BADAN	JUICE & MACER ATT.	31-12-2028
26	NIRANJAN	MANUFACTURING COOLIES	30-06-2029
27	PARAM JIT SINGH	MANUFACTURING COOLIES	30-06-2029
28	DEENANATH	MANUFACTURING COOLIES	31-12-2029
29	SHIV KUMAR	MANUFACTURING COOLIES	28-02-2030
30	RAJ KUMAR	MANUFACTURING COOLIES-R	30-05-2030
31	JAI BHAGWAN	MANUFACTURING COOLIES	31-12-2030
32	RAM PAL	ASSTT. PANMAN	28-02-2031
33	JAI CHAND	MANUFACTURING COOLIES	31-03-2031
34	RAJINDER SINGH	SAMPLE BOY-CUM-LAB BOY	31-08-2031
35	MANOJ KUMAR	MANUFACTURING COOLIES	31-10-2031
36	SURESH KUMAR	MANUFACTURING COOLIES	31-03-2032
37	SURENDER KUMAR	MANUFACTURING COOLIES	30-04-2032
38	KULWANT SINGH	MANUFACTURING COOLIES	30-06-2032
39	OM PARKASH	MANUFACTURING COOLIES	30-06-2032
40	NARENDER KUMAR	MANUFACTURING COOLIES	30-11-2032
41	KIRAN PAL	ASSTT. PANMAN	31-05-2033
42	RAJBIR SINGH	JUICE & SYRUP ATT.	31-08-2033
43	PAWAN KUMAR	SUGAR HOUSE CLERK	30-09-2033
44	BUDH RAM	MANUFACTURING COOLIES	30-11-2033

45	JAGBIR SINGH	JUICE & MACER ATT.	31-12-2033
46	SUKHDEV	MANUFACTURING COOLIES	31-12-2033
47	RAJ KUMAR	SUGAR HOUSE CLERK	31-03-2034
48	KALI CHARAN	SAMPLE BOY-CUM-LAB BOY	31-05-2034
49	ABDUL RAHMAN	MANUFACTURING COOLIES	31-07-2034
50	MADAN LAL	MANUFACTURING COOLIES	31-12-2034
51	JASPAL CHAND	CENTRIFUGAL OPERATOR-R	30-04-2035
52	SUMER SINGH	MANUFACTURING COOLIES	28-02-2037
53	LADHU SINGH	MEGMA OPERATOR-R	30-04-2037
54	MADAN SINGH	MANUFACTURING COOLIES	31-03-2038
55	HARBHAGWAN	EVAPORATOR ATT.-R	31-05-2038
56	SATBIR	MANUFACTURING COOLIES	31-07-2039
57	SUBHASH KUMAR	ASSTT. PANMAN	30-11-2040
58	MANNU	MANUFACTURING COOLIES	28-02-2042
59	SURMUKH SINGH	MANUFACTURING COOLIES	30-11-2042
60	GURMEET SINGH	VACUUM FILTER ATTD.T.-R	28-02-2043
61	SANJAY SAHAY	ASSTT. PANMAN	28-02-2043
62	VINEET	DY. CHIEF CHEMIST	31-05-2043
63	MISS YUKTA	JUICE & MACERATION RECORDER	31-10-2043
64	JATINDER KUMAR	LAB INCHARGE	28-02-2045
65	SACHIN	MFG. CHEMIST	30-06-2046
66	SANJEEV KUMAR	MANUFACTURING COOLIES	30-09-2046
67	SOMENDRA KUMAR	MFG. CHEMIST	31-07-2047

68	KALU RAM BALIYAN	MFG. CHEMIST	31-03-2048
69	MOHIT KUMAR	MFG. CHEMIST	31-07-2049
70	KAMAL JEET	SAMPLE BOY-CUM-LAB BOY	30-09-2052
71	RAVINDER NATH	SAMPLE BOY-CUM-LAB BOY	31-01-2055
72	MOHIT KUMAR	SAMPLE BOY-CUM-LAB BOY	30-06-2055

Name of Post	Sanctioned			Proposed by Shahabad Sugar Mills					Sugarfed Proposal			
	P	S	T		P	S	T		P	S	T	
MANUFACTURING SECTION												
Chief chemist	1	--	1		1	--	1		1	--	1	
Dy.Chief chemist	1	--	1		1	--	1		1	--	1	
Mfg. Chemist	4	--	4		4	--	4		4	--	4	
App. Chemist	1	--	1		--	--	--		--	--	--	
Lab. Chemist	--	4	4		--	3	3		--	4	4	
Lab. Incharge	1	--	1		1	--	1		1	--	1	
Suger House Clerk	--	3	3		--	4	4		--	4	4	
Molassis Clerk	--	4	4		--	--	--		--	--	--	Automatic recording.
Sample Boy-cum-Lab Boy	--	--	--		--	3	3		--	7	7	
Lab. Boy	--	4	4		1	3	4		--	--	--	Adjusted with Sample Boy.
P.H.Recorder/Analist	--	3	3			3	3		--	4	4	
Peon to C.C.	1	--	1		1	--	1		1	--	1	
C.F.Mate	--	4	4			4	4		--	4	4	
Evaporator Attd.	--	4	4			4	4		--	4	4	
Juice & Syrup Attd.	--	4	4			3	3		--	4	4	
Juice Heater Attd.	--	3	3			3	3		--	3	3	
Clarifier Attd.	--	4	4		--	3	3		--	4	4	
V.F.Attd.	--	3	3		--	3	3		--	3	3	
S.F.Attd.	--	4	4		--	3	3		--	4	4	
Lime Attendant	--	--	--		--	--	--		--	3	3	
J & M Attd.	--	4	4		--	3	3		--	--	--	
C.F.Operator	--	21	21		--	20	20		--	11	11	One for 'B, one for 'C and CAW Machine after for 'A' for two motors if A Machine is two then additional one for two machines
Head Panman	1		1		1	--	1		1		1	
Pan Incharge	--	4	4		--	4	4		--	3	3	
Panman	--	3	3		--	3	3		--	7	7	

Asstt. Panman	--	11	11		--	11	11		--	7	7	3500 & above then 11 Asstt. Pan Man.
J.S. Attend												Abolished .
Ev. & PRD Coolie	--	4	4		--	4	4		--	4	4	
Pan Coolie	--	21	21		--	21	21		--	11	11	
Magma Operator									--	7	7	
Magma Coolie		11	11			11	11		--	--	--	Abolished .
Grader coolie		4	4		--	--	--		--	4	4	
Cys.Coolie	--	11	11		--	11	11		--	--	--	7 out source.
Bagasscillo Coolie	--	4	4		--	--	--		--	--	--	4 out sources
Sulphure Coolie									--	--	--	4 out sources
Lime Coolie	--	7	7		--	--	--		--	--	--	3 out sources
Gutter Coolie	--	4	4		--	4	4		--	--	--	4 out source.
Melter Coolie	--	3	3		--	3	3		--	--	--	3 out source.
Hopper Coolie									--	--	--	4 out source.
Press Coolie	--	7	7		--	--	--		--	--	--	7 out source.
Pit cleaning Coolie									--	--	--	4 out source.
TOTAL	10	163	173		10	134	144		9	102	111	40
ENGINEERING DEPT.												
GENERAL												
Chief Engineer	1	--	1		1	--	1		1		1	
Dy.Chief Engineer	1	--	1		--	--	--		1		1	
B.O.E.	1	--	1		1	--	1		1		1	
Asstt. Engineer (M)	4	--	4		4	--	4		4		4	
Asstt. Engineer (Inst.)	1	--	1		1	--	1		1		1	
A.E. Civil	1	--	1		1		1		1		1	
Draft Man	1	--	1		1		1		1		1	
Welder	5		5		5		5		3	2	5	
Instrument Mechanic	1		1		1		1		4	--	4	
Instrument Attendant	1		1		1		1		4	--	4	
Masson	1	1	2		1		1		1		1	
Masson Coolie	1	1	2		1		1		1		1	
Sanitary Fitter	1		1		1	--	1		1	--	1	
S.F helper	--	--	--		1	--	1		1	--	1	
Head Khalasi	1		1		1		1		1	--	1	

Khalasi	14		14		13		13		11	--	11	
Coolie	3		3		--	--	--		--	--	--	2 Out source.
Peon to C.E.	1		1		1		1		1		1	
TOTAL	39	2	41		35	--	35		38	2	40	2
WORKSHOP												
work shop Foreman/Engineer	1	--	1		1	--	1		1		1	
Fitter	2	--	2		1	--	1		1	-	1	
Painter					--	--	--		-		-	Post abolished
Moulder					--	--	--		-	-	-	Post abolished
Turner	4		4		4		4		2	-	2	
Blacksmith	1		1		1		1		1	-	1	
Hammerman	2		2		1		1		1	-	1	
Carpenter	1		1		1		1		1	--	1	
Machinist	2		2		2		2		1	--	1	
TOTAL	13		13		11		11		8	--	8	
ELECTRICAL												
A.E. Electrical	1		1		1		1		1		1	
Elect.Foreman	1		1		--		--		1	--	1	
Electrician	5		5		4		4		4		4	
Elect. Helper					--		--		4		4	
Wireman	5		5		5		5		4		4	
S.B.A.	1	2	3		1	2	3		1	3	4	
Turbine Mech.	1		1		0		0		1	--	1	
P.H.TurbineAttd.	1	5	6		1	4	5		1	3	4	
D.G.SetOprater	1		1		--	--	--		--	--	--	
TOTAL	16	7	23		12	6	18		17	6	23	
C.C.& MILL HOUSE												
Mill House Foreman	1		1		1		1		1		1	
M.H.Head Fitter/Fitter	3		3		3		3		4		4	
Mill House Fitter	4		4		4		4		--	--	--	
MHF Helper									4		4	
Mill House Turbine Attd. (a)where there are individual Turbines on Mills & Fibrizers OR (b) Where there are oneTurbhine on two Mills OR (c) Where there are oneTurbine on two Mills. (d) Electrician Attendants where all Mills &Fibrizer are	2	9	11		2	5	7		-	11 OR (7) OR (4) OR (4)	11 OR (7) OR (4) OR (4)	7 (S) for Karnal,So nepat& Palwal Mills, 11 for Kaithal, Meham& Shahabad . Note:1) in case of Electrical Motor at Mill House,

Motor Driven.												Turbine Opt. will be over and one Electrician per shift will be kept. Note:2)Where Mill Turbines are there one Turbine Attndt. for two Turbines for Mills House and one for Fibrizer.
D.C.S. Operators in Mills Control Room where Mills &Fibrizer are Motor Driven.									-	3	3	Note: Where DC Motors with DCS System are on Mills. Instead of Mill House Turbine Attendant , there will be only 4 Electricians (one per shift) and 3 DCS Operator one per shift.
Mill Engine Driver	--											Post abolished.
Oilman/Boiling House/Mill House	--	7	7			7	7		--	7	7	Central Mill lubrication system to be installed

												within three years.
MPA & BC Attd.	--	7	7			7	7		--	7	7	For Shahabad Four Attendant per shift, extra per shift can be due to extra belt elevator.
Cane Unloader Optr.	1	10	11		1	10	11		1	10	11	Max. 11 for three Un-loader upto 35,000 and above 35,000 for four un-loader max. 14.
Cane Cutting Optr/Attdt.					-	4	4		-	4	4	
Mill Bed Coolie	--	11	11		--	--	--		--	--	--	7 Out source
TOTAL	11	33	44		11	33	44		10	42	52	7
BOILER HOUSE												
B.Chemist / DM Plant Optr	1	3	4		1	3	4		1	3	4	
Boiler Attd.	7		7		4	--	4		4	-	4	
Boiler Attd.Helper									4	-	4	
(a) Waterman, where Two Boiler are there. OR (b) For one Boilers		7	7		--	4	4		-	7 OR (3)	7 OR (3)	In case there are two Boilers, then there shall be seven Waterman.
Fireman	1	6	7		1	6	7		1	3	4	
Feed Pump Attd.		4	4			4	4			4	4	
Boiler & Bagasse coolie		21	21		4	-	4		-	-	-	7 Out source.
Every Fitter/ Electrician/ Boiler Attendant will be given 1 helper												

TOTAL	9	41	50		10	17	27		10	17	27	7
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BOILING HOUSE												
B.H.Foreman	1		1		1	--	1		1		1	
Head Fitter/ Fitter	3		3		3	--	3		4		4	After 15 yrs. satisfactory service, Fitter will be designated as Head Fitter provided that nothing is adverse in his service record.
Helper to Boiling House Fitter	--		--		--	--	--		4		4	
Oilman	--	7	7		--	4	4		--	--	--	Adjusted with the Oilman of the Mill House.
MPA	--	18	18		--	14	14		--	11	11	
CF Mechnic	1	--	1		1	--	1		1		1	
CF Fitter	4	--	4		4	--	4		4		4	
CF Helper		--							5		5	
TOTAL	9	25	34		9	18	27		19	11	30	
CO-GEN PLANT												
Dy.CE	1	--	1		1		1		1		1	Co-gen Staff strength will be included in the staff strength as and when Co-gen. projects start in the Mills.
Elect. Engineer	1	--	1		1		1		1		1	
Turbine Engineer	--	--	--		--	--	--		1		1	New Post
DCS Oprater	4	--	4		4		4		4		4	
Electrician	4	--	4		4		4		1		1	

Inst. Mechnic	1	--	1		1		1		--	--	--	Shifted to General Section of Engg.Dept t.
Helper	--	--	--		5		5		--	--	--	Post abolished.
Cooling Water Pump Attendant										4	4	New Post
Total	11	--	11		16		16		8	4	12	

Note:1) All cleaning work will be out-sourced including dismantling and assembling.

Note:2) All Mills will up-date their machinery as per revised staff strength. Till then, Mills can out-source the staff, if required under the new Staff Strength.

Note:3) If any machinery is installed in any Mills to increase the productivity and it requires additional manpower, then Sugar Mills shall send the proposal with cost benefit analysis to the Sugarfed. The such additional manpower shall be allowed only if Sugarfed finds it productivity oriented.

Note:4) Security: To ensure the proper Security of the Mills, all Mills must raise 8 ft. height boundary walls and 4 ft.additional barbed wires on this wall around the factory plant. Full lighting arrangements should be made along side the boundary wall. Proper security huts/pickets should be constructed on all four corners of boundary wall with four side window view. There should not be more than 7 security points in off season and 12 security points in season. In case of practical difficulties, if there is additional requirement of security personnel from the service Provider, then Sugar Mills send the proposal alongwith lay out plan and fully explaining the practical difficulty for approval of the RCS (Sugar Mills) on the recommendations of the Sugarfed Advisors.

Revised Scope of work of Engineering Section during off season 2026.

Complete Repair, Maintenance, trial and testing of Equipment's/Machinery of Shahabad Cooperative Sugar Mills Ltd i.e. double sulphitation based sugar plant of 5000 TCD along with 24 MW Co-generation Plant for the off season 2026 along with mills available Technical staff.

A. Mill House:-

Complete repair, maintenance, trial and testing of Mill House Section during off-season 2026 i.e. cane unloaders, preparatory devices, mill assembly, gear section, cane carriers, main & inter rake carriers and bagasse carriers etc. including welding & material handling jobs:

Main jobs to be carried out are as under :-

- a. Repair, maintenance and alignment work of motor driven cane preparatory units i.e. cane Fibrizer, swing leveler, cane chopper and head on cutter.
- b. Repair, maintenance and assembly of complete 04 mills tandem combine of 1st and 4th mill CMR Ulka make 39"x78" size and 2nd & 3rd mill conventional Triveni make 36"x78" size mills with TRPF.
- c. Checking of anvil plate setting of all preparatory devices i.e. H.O.C. and cane fiberizer.
- d. Repair & maintenance of water transfer pump of RCC clarifier.
- e. Repair of lube oil system of cane fiberizer.
- f. Repair of pusher of cane fiberizer along with its drive arrangement.
- g. Repairing work of mills 01 number, 25 ton capacity EOT crane along with bridge, trolley, wheels and drive arrangement etc.
- h. Routine welding and cutting related jobs including mill roller arcing.
- i. Material handling/ Khallasi related jobs.

Boiling House :

Complete repair, maintenance & trial related jobs of Boiling House Section.

Main jobs to be carried out as under :-

- a. Repair & maintenance of 02 nos. Boulogne type scales (Capacity 01 no. x 10 Ton and 01 no. x 3.5 Ton) along with check beam scale for measurement of raw juice and maceration water.
- b. Complete repair & maintenance related jobs of juice heaters of raw juice i.e. vapour line 02 nos., dynamic 02 nos., Vijay condensate 03 sets, sulphited juice (Total=05 nos., 01 no. DCH + 04 Nos. Tubular), clear juice (Total=03 nos., 01 no. DCH + 02 Nos. Tubular) with related rubber strip channels, cover tightening arrangements and replacement of leaky tubes etc.
- c. Complete repair & maintenance related jobs of juice sulphiters (02 Nos) including man hole, sight glass, perforated plates, gas coils and sparger with circulator arms and drive arrangement etc.
- d. Complete repair & maintenance related jobs of syrup sulphiters (02 Nos) including all valves, sight glass, perforated plates, gas coils, man hole and sparger etc.
- e. Hydraulic testing, water and steam trial of all Semikestners, vapour cells, FFE, evaporator bodies, juice heaters, sulphur melters, melt receivers, juice sulphiters, syrup sulphiters and vacuum filters etc. as required.
- f. Routine welding, cutting and material handling related jobs.

C. Pan Section

Complete overhauling, repair, maintenance & trial related jobs of Pan Section, Crystallizer section, Injection Section & Spray section with related Equipments

Main jobs to be carried out as under :-

- a. Hydraulic, water, vacuum and steam trials of all A, B & C massecuite batch type pans.
- b. Hydraulic, water, vacuum and steam trials of all B & C continuous pans.
- c. Dismantling, Repair & maintenance of planetary gear boxes / drive units, alignment, all related valves etc. of 04 nos air cooled crystallizers for A-massecuite and 08 nos for B & C Massecuite.
- d. Dismantling, Repair & maintenance of planetary gear boxes / drive units, alignment, water coils testing, all related valves etc. of B & C Massecuite vertical crystallizers
- e. Hydraulic testing of B & C massecuite vertical crystallizer.
- f. Material handling/ Khalasi & welding related jobs in factory during routine repair and maintenance of Pan Section, Crystallizer section, Injection pump Section & Spray pump section.

D. Repair and maintenance jobs at Centrifugal Section along with Mills Technical Staff during the Off season 2026.

- a. Dismantling, Repair, maintenance, assembly & alignment of superheated water pumps with valves for batch type centrifugal machines.
- b. Dismantling, Repair, maintenance, assembly & alignment of all sugar elevators, Sugar graders and all sugar belt conveyors in all respect.
- c. Dismantling, Repair, maintenance, assembly & alignment of driving unit of both sugar melters i.e. brown sugar and B & C melters.
- d. Dismantling, Repair, maintenance, assembly & alignment of molasses weighing scale and molasses tanks pumps & valves etc.
- e. Material handling/ Khalasi & welding related jobs during routine repair and maintenance in C/F section.

E. Running contract of Mills Mechanical Workshop Lathe Machines, Shaper, Planer, Slotter, Radial Drill machine, Power Hacksaw, Carpentry and Black Smith related jobs during off-season 2026.

F. Repair & maintenance of Electrical section during off season 2026 along with Mill Technical staff.

- a. Testing of energy meters and switchyard equipment shall be carried out through a NABL-accredited laboratory as per the standard guidelines issued by S.D.E., 200 kV Substation and HVPNL M&P team in order to fulfill the PPA norms.
- b. Repair & maintenance of lightening of complete factory including overhead lights, roof light, tower light and flood lights etc.
- c. Repair & maintenance of LED display installed at Mill gate is in Bidder scope however required material shall be provided by the Mills.
- d. Deployment of staff for essential services.

G. Contract for the operation, repair & maintenance and Troubleshooting of Co-gen Plant automation (DCS-SCADA) System and Mill automation, ACFC & Imbibition water control (PLC-SCADA) System, Boiling House instruments and Sugar Bagging machine instruments during off-season 2026.

Boiler+Turbine system:

Co-gen Plant automation (DCS-SCADA) System(ABB 800XA system version 6.0.3.2 & AC800M redundant DCS controllers (PM861A Make: ABB), Profibus master CI854A)

Total I/O: approx. 1440.

Mill Automation+ACFC+Imbibition System:

PLC :- ABB make AC-500

SCADA: - ABB make Compact Control Builder.

Total I/O: approx. 250.

Jobs to be carried out are as under :-

- a. Testing & Trouble shooting of PLC& DCS I/O modules, SCADA configuration during shutdown/genera cleaning/Preventive maintenance during off-season.
- b. Execute daily preventive maintenance schedule as per instruction by Section in charge.
- c. Deputing competent technically qualified persons during each shift for smooth operation and maintenance of entire Instrumentation system of the plant during crushing season.
- d. Submission of daily maintenance report along with actions taken to ensure smooth operation of the plant automation system.
- e. Maintenance and operation of Profibus communication network and Ethernet communication network including signal Boosting stations.
- f. Adequate technically qualified manpower has to be deployed by you during each shift during season and during duty hours in case of off-season, bearing prescribed qualifications of mills staff strength for satisfactory operation and maintenance of the plant.

H. Repair & maintenance jobs at boiler section during Off Season 2026 with mills technical staff

- a. Repair, maintenance, checking, testing & operation of 30-ton capacity treated water R.O treatment plant with storage tank along with their allied pumps, valves, blowers, RCC water storage tank pumps valves etc.
- b. Boiler hydraulic testing and steam trial.

I. Provision of skilled and Semi-skilled manpower during major overhauling jobs at 24 MW power Turbine during off season 2026 along with Mills Technical Staff.**Jobs to be carried out as under :-**

- a. Complete dismantling, overhauling and assembly of 24 MW power turbine and its reduction gear SEISA make.

The specification of 24 MW Power Turbine is as under: -

Sr. No.: - 22049

Type: - C6-R11-ER

Nominal output: - 25500 KW

Speed (Turbine/ Generator):- 6227/1500 RPM

Inlet steam pressure: - 86.3 Kg/Cm²

Inlet steam Temperature: - 505 C

1st Extraction steam pressure: - 10.7 Kg/ Cm²

2nd Extraction steam pressure: - 2.5 Kg/Cm²

- J. Repair & maintenance of complete valves, pumps and other driving units of 02 nos effluent treatment plants (ETP)

ANNEXURE -D

Tentative scope of work will involve Operation and Maintenance of Equipment's/Machinery of Shahabad Co Op Sugar Mill i.e., Plantation White Sugar Plant of 5000 TCD along with 24 MW Cogeneration Plant for the crushing season 2026-27& 2027-28.

- A. Contract for the operation, repair & maintenance and Troubleshooting of Co-gen Plant automation (DCS-SCADA) System and Mill automation, ACFC & Imbibition water control (PLC-SCADA) System, Boiling House instruments and Sugar Bagging machine instruments during off-season as well as crushing season 2026-27& 2027-28.**

Boiler+Turbine system:

Co-gen Plant automation (DCS-SCADA) System(ABB 800XA system version 6.0.3.2 & AC800M redundant DCS controllers (PM861A Make: ABB), Profibus master CI854A)

Total I/O : approx. 1440.

Mill Automation+ACFC+Imbibition System:

PLC :- ABB make AC-500

SCADA :- ABB make Compact Control Builder.

Total I/O : approx. 250.

Jobs to be carried out as under:-

- Testing & Trouble shooting of PLC& DCS I/O modules, SCADA configuration during shutdown/genera cleaning/Preventive maintenance during off-season.
- Execute daily preventive maintenance schedule as per instruction by Section incharge.
- Deputing competent technically qualified persons during each shift for smooth operation and maintenance of entire Instrumentation system of the plant during crushing season.
- Testing, Troubleshooting and servicing of all field instruments of all sections including cable laying and new instrument mounting and calibration as and when required in running plant as well as during off-season. (Field instruments such as chute level sensors, transmitters, local indicators, Field signal Isolators mounted at various VFD panels, control valves, Pneumatic Cylinders, flowmeters, electronic timers etc.)
- Submission of daily maintenance report along with actions taken to ensure smooth operation of the plant automation system.
- Maintenance and operation of Profibus communication network and Ethernet communication network including signal Boosting stations.
- Adequate technically qualified manpower has to be deployed by you during each shift during season and during duty hours in case of off-season, bearing prescribed qualifications of mills staff strength for satisfactory operation and maintenance of the plant.
- Preventive maintenance of pollution control equipments and Ground water level monitoring system including tubewell flowmeters & Piezometer needs to be done as per requirement. Daily reading of flowmeters and piezometer must be noted at Ground water monitoring system Logbook.
- Preventive maintenance of Scroll Chillers (25 TR-03 nos& 50 TR-01 no), AHUs, Cooling Tower & associated pumps and motor. Maintenance and minor repairing of all existing Split & Window AC of capacity upto 2 TR. Shiftwise technically qualified manpower must be deployed for smooth operation and maintenance of Chillers, Cooling towers, pumps, 17 TR

Air-cooled AC during running season. Preventive maintenance of all chillers and AC must be done during off-season as per section incharge instructions.

B. Running Operation & Maintenance contract of 24 MW Power Turbine (Shin Nippon Make) & 3-cell cooling tower and Alternator (TDPS make) with DCS system including generator protection panel, Synchronization, 24 MVA transformer panel and 11 KV panels, complete 66 kV switch yard, old & new power houses as well as Running Operation & Maintenance Contract for DCS System (Skilled DCS operators & field operator is required (24 hour x 07 days) for handling the same turbine) during the crushing season 2026-27 & 2027-28 along with Mills Technical Staff. (excluding any specialized electrical work in alternator)

a. The specification of 24 MW Power Turbine is as under: -

Sr. No.: - 22049

Type: - C6-R11-ER

Nominal output: - 25500 KW

Speed (Turbine/ Generator):- 6227/1500 RPM

Inlet steam pressure: - 86.3 Kg/Cm²

Inlet steam Temperature: - 505°C

1st Extraction steam pressure: - 10.7 Kg/ Cm²

2nd Extraction steam pressure: - 2.5 Kg/Cm²

b. Attached units: -

Operating Governor system make Woodward 505XT/505E, Alternator TDPS make, Lube oil system & oil coolers Enpro make, Ejector Mazda make, Condenser Godavari make, Condensate extraction pumps Sulzer make, 3-cell RCC cooling tower Paltech make, PRDSH 25kg/cm², 08 kg/cm² & 1.5 kg/cm², M.P.header and De-superheating system, Alternator TDPS make, AVR panel, generator protection panel, Synchronization panel, RTCC panel, 24 MVA transformer protection panel, feeder protection panel, battery charger panel-2 nos., 11 KV breakers of entire system etc. (only operation).

Note:

- i) PRDSH 1.5 Kg/cm² started and closing operation during bad weather or breakdown, etc (if any).
- ii) All routine repair and maintenance, troubleshooting and major job work (if required) & cleaning job work of 24 MW power turbine and its 3-cell RCC cooling tower during operation & maintenance and General cleanings.

C. Running Operation & Maintenance contract for Cane unloaders for unloading of cane from cane wagons i.e. truck and trollies etc. and feeding into main and auxiliary cane carriers during the crushing season along with Mills Technical Staff for season 2026-27 & 2027-28.

Main jobs to be carried out as under: -

- a) Operation of cane unloaders to suit the crush rate.
- b) Shift wise complete cleaning of cane unloader grabs and power packs etc.
- c) Attending of breakdown of cane unloaders along with mill staff.
- d) Checking main components cane unloader i.e. rail, wheel, brake, functioning of electrical components, leakages, and oil level etc.

Note:

If any dispute arises with cane vehicle owner during operation of cane unloader due to damage of wagon etc. to be sort out by contractor otherwise Mill have the right to do the

same on the risk and cost of contractor.

- D. Running/ operation contract for the repair & maintenance for mill house head fitters/ foreman, attendants, helpers for various carriers i.e. Bagasse carriers, Cane carriers & belt conveyors, bagasse belts, Main rake carrier etc. and preparatory devices i.e. fiberizer and head on cutter etc for mill house including attending shut down for mechanical jobs during the crushing season along with mill staff. Running/ operation contract for the operation of DCS at mill house i.e. SCADA and ACFC system for smooth operation/ working of mills in three shifts during crushing seasons including R shift for season 2026-27& 2027-28.**
- E. Running Operation & Maintenance contract including fitter, helpers, MPA and oilman for the repair & maintenance work as well as Operation of Centrifugal Section for mechanical jobs during the crushing season along with mill staff for season 2026-27& 2027-28.**
- F. Running/ operation contract for the repair & maintenance work including Fitter, helpers, MPA of Boiling House i.e. Evaporation section, Clarification section, Pan House, Crystallizers, Injection and Spray house (02 shifts) for mechanical jobs during crushing season along with mill staff for season 2026-27& 2027-28.**
- G. Khalasi for attending various repair maintenance jobs anywhere in plant during crushing season along with mill staff for season 2026-27& 2027-28.**
- H. Welders to attend the various repair and maintenance related jobs in plant during the crushing season 2026-27&2027-28.**
- I. Running operation for Mechanical Workshop having Lathe Machines, Shaper, Planner, Radial Drilling, Power Hacksaw, Smithy& Carpentry Shop during the crushing season 2026-27&2027-28 in all the three shifts along with mill staff.**

Note:

The Contractor shall depute competent staff for Turning jobs, Machinists jobs, Smithy, and Carpentry jobs as well as material cutting / drilling jobs as per instructions of Workshop Engineer on daily basis. Daily cleaning of machines will also be in the scope of contractor during the crushing season three shifts (24 x 7) shall be operated in workshop and in case of emergent work contractor shall arrange the concerned staff in workshop. All the tools and measuring instruments shall be provided by the Mills.

J. Boiler Section jobs during season 2026-27&2027-28.

Running Operation & maintenance of 125 TPH Boiler & 87 Kg/cm² working pressure bagasse fired boiler with Distributed Control System (DCS) including its allied furnace, bagasse (fuel) feeding system, air feeding system, flue gas handling system, Boiler water testing & its feeding system to boiler, ash& bagasse handling system etc. along with utilising our existing available boiler manpower during crushing season 2026-27& 2027-28.

- K. Running Operation & Maintenance and Trouble Shooting contract for all Electrical Equipment's/ Apparatus Installed in Co-Generation Plant including Mill Section, Boiler**

Section, Turbine Section, Cooling Tower, 02 nos. ETP, 66 kV switch yard and Process Section for the crushing season along with Mills Technical Staff. Complete Repair & Maintenance, Operation and Trouble Shooting jobs of Electrical Equipment's/ Apparatus Installed in Co-Generation Plant including Mill Section, Boiler Section, Turbine Section, Cooling Tower, 02 nos. ETP, 66 kV switch yard and Process Section for the crushing season 2026-27 & 2027-28. Repair & maintenance of LED display installed at Mill gate is in Bidder scope however required material shall be provided by the Mills.

- L.** Operation & maintenance of VVFD drives of Boiler section, Mill house, Process section, DCS-400 PLC panels of 1250 Kg/charge Batch type Centrifugal machine (WIL), DCS-800 PLC panels of 1750 Kg/charge Batch type Centrifugal machine (WIL) and PLC panels of 1000 Kg/charge Batch type Centrifugal machine (Krupp.) of ABB make for the crushing season 2026-27 & 2027-28.

However trouble shooting of VVFD drives shall remain in the scope of Mill.

Tentative Scope of work of Engineering Section during off season 2027.

Complete Repair, Maintenance, trial and testing of Equipment's/Machinery of Shahabad Cooperative Sugar Mills Ltd i.e. double sulphitation based sugar plant of 5000 TCD along with 24 MW Co-generation Plant for the off season 2027 along with mills available Technical staff.

A. Mill House:-

Complete repair, maintenance, trial and testing of Mill House Section during off-season 2027 i.e. cane unloaders, preparatory devices, mill assembly, gear section, cane carriers, main & inter rake carriers and bagasse carriers etc. including welding & material handling jobs:

Main jobs to be carried out are as under :-

- j. Repair, maintenance and alignment work of motor driven cane preparatory units i.e. cane Fibrizer, swing leveler, cane chopper and head on cutter.
- k. Repairing work of 04 nos. cane unloaders having 05 ton capacity along with bridges, trollies, grabs power packs, wheels and drive arrangement.
- l. Repairing of complete gear train of mill house i.e. open spur gear & pinion, enclosed reduction gear boxes, oil coolers, bearings, and couplings etc. (Model number H3 : 800, Make Premium)
- m. Checking of bearing clearances and backlash of enclosed gear boxes 04 nos. of mill house H3 -800, Make -Premium.
- n. Repair, maintenance and assembly of complete 04 mills tandem combine of 1st and 4th mill CMR Ulka make 39"x78" size and 2nd & 3rd mill conventional Triveni make 36"x78" size mills with TRPF.
- o. Checking and rectification work of clearances of gun metal bearings of transmission gear and pinions of mill house.
- p. Checking and repairing related jobs of 02 nos. bagacillo blowers.
- q. Checking and repairing of drive arrangement along with drive and non-drive shafts of all inter rake carriers.
- r. Checking of anvil plate setting of all preparatory devices i.e. H.O.C. and cane fiberizer.
- s. Checking and lapping jobs of gun metal bearings of mill rollers.
- t. Hard facing of sprockets, crown pinions, trash plates, anvil plates, TUFR and static collars etc.
- u. Repair/ replacement of M.S. collars of TUFRs.
- v. Repair and maintenance of mills juice pumps, screened juice pumps, R.J.S. washing pumps rotary screen-02 no.
- w. Repair & maintenance of water transfer pump of RCC clarifier.
- x. Repair of lube oil system of cane fiberizer.
- y. Repair of pusher of cane fiberizer along with its drive arrangement.
- z. Repair & maintenance of cane belting and cane equalizer along with drive arrangement.
- aa. Repairing work of mills 01 number, 25 ton capacity EOT crane along with bridge, trolley, wheels and drive arrangement etc.
- bb. Routine welding and cutting related jobs including mill roller arcing.
- cc. Material handling/ Khallasi related jobs.

Boiling House :Complete repair, maintenance& trial related jobs of Boiling House Section.

Main jobs to be carried out as under :-

- g. Dismantling, repair, maintenance, assembly, alignment and trial of electric motor driven pumps of raw juice, H.T. & L.T. condensate, exhaust condensate, condensate, maceration water, clear juice, sulphited juice, filtrate juice, syrup, milk of lime, FFE transfer & re-circulation, muddy juice, vacuum, firefighting, service water and mini spray pond and hot & cold water etc. along with related suction & delivery valves and non-return valves etc.
- h. Dismantling, repair, maintenance, assembly& alignment work of drive arrangement including reduction gear boxes of circulators of juice sulphiters (02 Nos), Rotary Vacuum Filters device along with their agitators & mud belts (04 sets), circulators of milk of lime tanks (03 Nos.), lime slacker (01 no.), mud mixer (01 no.) and juice clarifier.
- i. Repair & maintenance of 02 nos. Boulogne type scales (Capacity 01 no. x 10 Ton and 01 no. x 3.5 Ton) along with check beam scale for measurement of raw juice and maceration water.
- j. Complete repair and maintenance of sulphur furnaces station having batch type sulphur furnaces (03 Nos. x 200kg/ Hr. capacity), sulphur melters, primary & secondary coolers, steam jacketed valves, diaphragm valves, gas lines, cooling water pipe lines with related valves, air pipe lines with related valves, C.I. cross & reducers and 03 nos. Usha make air blowers etc.
- k. Repair & maintenance of lime preparation devices having 01 No. x 2000 Kg./ Hr. capacity lime slacker, 03 Nos. storage tanks of milk of lime, grit removal system and vibro screens with complete drive arrangement etc.
- l. Complete repair & maintenance related jobs of 01 No. juice clarifier having 04 compartments, diameter 36 feet x 5200 H.L. capacity with related related sluice & telescopic valves, N.R.V., mud seals, mud scrappers, flocculation chamber and center shaft with complete drive arrangement etc.
- m. Complete repair & maintenance related jobs of 04 nos. cane mud vacuum filter units (02 nos. 10'x20' size & 02 nos. 8'x20' size) with related agitator, bridge/ turn-on valves, vacuum pipe lines, filter screen, mud scrappers, brass zig-zag strips, lubrication units, water spray nozzles, pipe line of juice/ water, valves and mud belt arrangement with drive/ driven pulleys, idlersand complete drive arrangement etc.
- n. Complete repair & maintenance related jobs of juice heaters of raw juicei.evapour line 02 nos., dynamic 02 nos., Vijay condensate 03 sets, sulphited juice (Total=05 nos., 01 no. DCH + 04 Nos. Tubular), clear juice (Total=03 nos., 01 no. DCH + 02 Nos. Tubular) with related ammonia valves, double beat valves, condensate valves,juice & water valves, rubber strip channels, cover tightening arrangements and replacement of leaky tubes etc.
- o. Complete repair & maintenance related jobs of Semi Kestners (02 Nos.), Vapour cells (02 Nos.),, Evaporator bodies (02 sets=03x02=06 Nos), FFE (01 No.) with related ammonia valves, all juice valves, hot/ cold water valves, exhaust valves, vapour valves, condensate valves, wash out valves, man holes and replacement of leaky tubes etc.
- p. Complete repair & maintenance related jobs of juice sulphiters (02 Nos) including juice valves, man hole, sight glass, perforated plates, gas coils and sparger with circulator arms and drive arrangement etc.
- q. Complete repair & maintenance related jobs of syrup sulphiters (02 Nos) including all valves, sight glass, perforated plates, gas coils, man hole and sparger etc.
- r. Hydraulic testing, water and steam trial of all Semikestners, vapour cells, FFE, evaporator

bodies, juice heaters, sulphurmelters, melt receivers, juice sulphitors, syrup sulphitors and vacuum filters etc. as required.

- s. Routine welding, cutting and material handling related jobs.

C. Pan Section

Complete overhauling, repair, maintenance & trial related jobs of Pan Section, Crystallizer section, Injection Section & Spray section with related Equipments

Main jobs to be carried out as under :-

- g. Dismantling, repair & maintenance of batch type Pans related header valves, Vacuum breaker valves, ammonia & water valves, Exhaust & vapour valves, wash out valves, pneumatic cut over valves, manual discharge valves, sight glass, man holes, proof sticks, expanding/ replacement/ plugging of leaky tubes, etc. of A- massecuite (03 Nos. x 85 ton), B & C massecuite (04 nos, 01 no 60 ton & 03 nos 40 ton capacity).
- h. Hydraulic, water, vacuum and steam trials of all A, B & C massecuite batch type pans.
- i. Dismantling, Repair & maintenance of B massecuite (30 ton capacity) & C massecuite (25 ton capacity) continuous pans related feed valves, cut over valves, wash out valves, steam & water valves, Exhaust & vapour valves, sight glass, man holes and expanding/ replacement/ plugging of leaky tubes, etc. including receiving crystallizers
- j. Hydraulic, water, vacuum and steam trials of all B & C continuous pans.
- k. Dismantling, Repair & maintenance of Vacuum crystallizer for A, B & C massecuite (03 Nos.), Dry seed crystallizer (01 No.), Moist sugar crystallizers (01 No.) along with drive arrangement, related pneumatic/ manual cut over valves, equalizing valves, motor driven grain pumps with valves etc. and alignment work,
 - l. Dismantling, Repair & maintenance of all related valves, 02 nos vibro screens etc of Melt tanks, syrup tanks, AL, A-Hy, B-Hy, C1-Hy, CL molasse tanks etc.
 - m. Dismantling, Repair & maintenance of drive units, valves etc of A-Hy, B-Hy, C1-Hy, CL molasses conditioner tank.
 - n. Dismantling, Repair & maintenance of planetary gear boxes / drive units, alignment, all related valves etc. of 04 nos air cooled crystallizers for A-massecuite and 08 nos for B & C Massecuite.
 - o. Dismantling, Repair & maintenance of planetary gear boxes / drive units, alignment, water coils testing, all related valves etc. of B & C Massecuite vertical crystallizers
 - p. Hydraulic testing of B & C massecuite vertical crystallizer.
 - q. Dismantling, Repair & maintenance all Injection pumps with their related valves, alignment of driving units, priming pump, Non return valves, butterfly valves etc
 - r. Dismantling, Repair & maintenance of all pumps with their related valves, alignment of driving units, priming pump, butterfly valves etc of Spray pump (pond) section.
 - s. Material handling/ Khalasi & welding related jobs in factory during routine repair and maintenance of Pan Section, Crystallizer section, Injection pump Section & Spray pump section.
- K. Repair and maintenance jobs at Centrifugal Section along with Mills Technical Staff during the Off season 2027.**
 - f. Dismantling, Repair, maintenance, assembly & alignment of 04 nos batch type centrifugal machines in all respect.

(NHEC 1750 kg/charge -01 no, WIL-1750 Kg/charge -01 no, WIL 1250 Kg/charge -02 nos)

- g. Dismantling, Repair, maintenance, assembly & alignment of 11 nos continuous centrifugal machines in all respect.
(TKL-1500-01 no, NK-1100-6 nos, Patange -1100-01 no, NK-1503-03 nos)
- h. Dismantling, Repair, maintenance, assembly & alignment of all pug mills, Magma mixtures related to Batch type & continuous centrifugal machines in all respect.
- i. Dismantling, Repair, maintenance, assembly & alignment of all grass hoppers, fluidized bed hoppers with their ID fans, FD fans, and slurry tank with pump & valves etc. in all respect.
- j. Dismantling, Repair, maintenance, assembly & alignment of all magma pumps with connected valves & reduction gear boxes.
- k. Dismantling, Repair, maintenance, assembly & alignment of all High flow pumps with connected valves etc.
- l. Dismantling, Repair, maintenance, assembly & alignment of superheated water pumps with valves for batch type centrifugal machines.
- m. Dismantling, Repair, maintenance, assembly & alignment of all sugar elevators, Sugars graders and all sugar belt conveyors in all respect.
- n. Dismantling, Repair, maintenance, assembly & alignment of driving unit of both sugar melters i.e. brown sugar and B & C melters.
- o. Dismantling, Repair, maintenance, assembly & alignment of molasses weighing scale and molasses tanks pumps & valves etc.
- p. Dismantling, Repair, maintenance, assembly & alignment of sugar slat conveyor & its allied belt conveyors for L, M & S sugar bins.
- q. Material handling/ Khalasi & welding related jobs during routine repair and maintenance in C/F section.

L. Running contract of Mills Mechanical Workshop Lathe Machines, Shaper, Planer, Slotter, Radial Drill machine, Power Hacksaw, Carpentry and Black Smith related jobs during off-season 2027.

M. Repair & maintenance of Electrical section during off season 2027 along with Mill Technical staff.

- e. Complete Cleaning, Repairing and Maintenance of co-generation plant including complete 66 kV switch yard, New Power house, Old power House (including all Changeovers), Power Factor correction panels, All Transformers, Bus ducts, Auxiliary Board, Lighting DB, Hydrel supply panel, All PCCBs, Cooling Tower of 24 MW Alternator, including trouble shooting work during off-season along with Mills Technical Staff.
- f. Complete Cleaning, Repairing and Maintenance and Cleaning of Boiling house including Service pump, Air compressor, Old and New Quad set, New & old continuous pan and Vertical Crystallizer, all Oliver filter, Fire Fighting pump motors with panel and new FFE drive motors including panels including trouble shooting work.
- g. Complete Cleaning, Repairing and Maintenance of New Boiler & R.O Plant & Tube well (Farm & New boiler side), Spray house and Molasses tank no 1-5 including trouble shooting work.
- h. Complete Cleaning, Repairing & Maintenance of Old and new ETP, Cane Weight Bridge (2 nos.) and Sugar Godowns 1- 8 including Stackers including trouble shooting work.
- i. General Cleaning, Repairing and Maintenance of Cane unloaders, Complete Mill house,

Head on Cutter, Auxiliary cane carrier, Starter, Power Factor panels and Capacitors banks, Workshop, Tube well (workshop side) and HOD's office., Sugar Weigh Bridge (5 nos.) and complete including trouble shooting work.

- j. General Repairing, Maintenance and Cleaning of Batch type C/F machine, All Continuous C/F machine, All Air Compressors, A-Battery pump and Pug mills, Complete Sugar house, Magma mixture and Molasses Pump, Complete Pan station and Crystallizer station. Molasses tank and pumps, and, all potable sugar stackers. All Injection pumps motors with panels including trouble shooting work.
- k. Testing of energy meters and switchyard equipment shall be carried out through a NABL-accredited laboratory as per the standard guidelines issued by S.D.E., 200 kV Substation and HVPNL M&P team in order to fulfill the PPA norms.
- l. Repair and maintenance of the 11 kV hydel power supply line after the metering panel up to the 440 V ACB panel.
- m. Repair & maintenance of lightening of complete factory including overhead lights, roof light, tower light and flood lights etc.
- n. Repair & maintenance of LED display installed at Mill gate is in Bidder scope however required material shall be provided by the Mills.
- o. Deployment of staff for essential services.

N. Contract for the operation, repair & maintenance and Troubleshooting of Co-gen Plant automation (DCS-SCADA) System and Mill automation, ACFC & Imbibition water control (PLC-SCADA) System, Boiling House instruments and Sugar Bagging machine instruments during off-season 2027.

Boiler+Turbine system:

Co-gen Plant automation (DCS-SCADA) System(ABB 800XA system version 6.0.3.2 & AC800M redundant DCS controllers (PM861A Make: ABB), Profibus master CI854A)
Total I/O: approx. 1440.

Mill Automation+ACFC+Imbibition System:

PLC :- ABB make AC-500
SCADA: - ABB make Compact Control Builder.
Total I/O: approx. 250.

Jobs to be carried out are as under :-

- g. Testing & Trouble shooting of PLC& DCS I/O modules, SCADA configuration during shutdown/genera cleaning/Preventive maintenance during off-season.
- h. Execute daily preventive maintenance schedule as per instruction by Section in charge.
- i. Deputing competent technically qualified persons during each shift for smooth operation and maintenance of entire Instrumentation system of the plant during crushing season.
- j. Testing, Troubleshooting and servicing of all field instruments of all sections including cable laying and new instrument mounting and calibration as and when required in running plant as well as during off-season. (Field instruments such as chute level sensors, transmitters, local indicators, Field signal Isolators mounted at various VFD panels, control valves, Pneumatic Cylinders, flowmeters, electronic timers etc.)
- k. Submission of daily maintenance report along with actions taken to ensure smooth operation of the plant automation system.
- l. Maintenance and operation of Profibus communication network and Ethernet communication network including signal Boosting stations.

- m. Adequate technically qualified manpower has to be deployed by you during each shift during season and during duty hours in case of off-season, bearing prescribed qualifications of mills staff strength for satisfactory operation and maintenance of the plant.
- n. Preventive maintenance of pollution control equipments and Ground water level monitoring system needs to be done as per requirement.

O. Repair & maintenance jobs at boiler section during Off Season 2027 with mills technical staff

- a. Dismantling, checking, repair and maintenance, alignment and trials of all ID fans, FD fans & SA fans with dampers.
- b. Dismantling checking, repair, maintenance, alignment and trials of following equipment along with driving arrangement.
 - Complete Travelling grate
 - Rotary air lock valves: 17nos
 - Ash handling screw conveyors- 05 nos
 - Ash belt conveyors: 03 nos
 - Bagasse belt conveyors: 03 nos
 - Bagasse extractors: 06 nos
 - Bagasse screw feeders: 06 nos
- c. Repair, maintenance, checking, testing & operation of 30-ton capacity treated water R.O treatment plant with storage tank along with their allied pumps, valves, blowers, RCC waterstorage tank pumps valves etc.
- d. Repair & maintenance of boiler mounting & accessories i.e. pressure parts valves, safety valves, drum level gauge glasses, soot blowers, de-aerator tank with valves, transfer pumps with valves, feed tanks with valves, feed pumps with valves & cooling arrangement, H.P heater & boiler feed lines valves etc, LP & HP chemical dosing pumps with valves, RCC water storage tank with valves, etc.
- e. Boiler hydraulic testing and steam trial.

P. Provision of skilled and Semi-skilled manpower during major overhauling jobs at 24 MW power Turbine during off season 2027 along with Mills Technical Staff.

Jobs to be carried out as under :-

- b. Complete dismantling, overhauling and assembly of 24 MW power turbine and its reduction gear SEISA make including dry sand blasting.

The specification of 24 MW Power Turbine is as under: -

Sr. No.: - 22049
 Type: - C6-R11-ER
 Nominal output: - 25500 KW
 Speed (Turbine/ Generator):- 6227/1500 RPM
 Inlet steam pressure: - 86.3 Kg/Cm2
 Inlet steam Temperature: - 505 C
 1st Extraction steam pressure: - 10.7 Kg/ Cm2
 2nd Extraction steam pressure: - 2.5 Kg/Cm2

- c. All detailed repair and maintenance work i.e. 24 MW power turbine i.e. all valves relate to exhaust, vents and steam & drains lines , Complete Condenser & oil coolers and alternator TDPS make water jet tube cleaning job work after dismantling , Condensate extraction pumps & valves & NRV, Lube oil system, ejector, PRDSH, Cleaning of PVC nozzles, headers & 3-cell of cooling tower with repair & maintenance of Fans, reduction gears, Pumps & its

pipeline valves and complete cleaning & repair and maintenance of Zero liquid surplus discharge system etc. of above said section is to be carried out as per direction given by the Section In-charge.

Q. Repair & maintenance of complete valves, pumps and other driving units of 02 nos effluent treatment plants (ETP)

Tentative scope of work will involve Operation and Maintenance of Equipment's/Machinery of Shahabad Co Op Sugar Mill i.e., Plantation White Sugar Plant of 5000 TCD along with 24 MW Cogeneration Plant for the crushing season 2026-27& 2027-28.

- A. Contract for the operation, repair & maintenance and Troubleshooting of Co-gen Plant automation (DCS-SCADA) System and Mill automation, ACFC & Imbibition water control (PLC-SCADA) System, Boiling House instruments and Sugar Bagging machine instruments during off-season as well as crushing season 2026-27& 2027-28.**

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Total I/O : approx. 1440.

Mill Automation+ACFC+Imbibition System:

PLC :- ABB make AC-500

SCADA :- ABB make Compact Control Builder.

Total I/O : approx. 250.

Jobs to be carried out as under:-

- a) Testing & Trouble shooting of PLC& DCS I/O modules, SCADA configuration during shutdown/genera cleaning/Preventive maintenance during off-season.
- b) Execute daily preventive maintenance schedule as per instruction by Section incharge.
- c) Deputing competent technically qualified persons during each shift for smooth operation and maintenance of entire Instrumentation system of the plant during crushing season.
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- e) Submission of daily maintenance report along with actions taken to ensure smooth operation of the plant automation system.
- f) Maintenance and operation of Profibus communication network and Ethernet communication network including signal Boosting stations.
- g) Adequate technically qualified manpower has to be deployed by you during each shift during season and during duty hours in case of off-season, bearing prescribed qualifications of mills staff strength for satisfactory operation and maintenance of the plant.
- h) Preventive maintenance of pollution control equipments and Ground water level monitoring system including tubewell flowmeters & Piezometer needs to be done as per requirement. Daily reading of flowmeters and piezometer must be noted at Ground water monitoring system Logbook.
- i) Preventive maintenance of Scroll Chillers (25 TR-03 nos& 50 TR-01 no), AHUs, Cooling Tower & associated pumps and motor. Maintenance and minor repairing of all existing Split & Window AC of capacity upto 2 TR. Shiftwise technically qualified manpower must be deployed for smooth operation and maintenance of Chillers, Cooling towers, pumps, 17 TR Air-cooled AC during running season. Preventive maintenance of all chillers and AC must be done during off-season as per section incharge instructions.

- B. Running Operation & Maintenance contract of 24 MW Power Turbine (Shin Nippon Make) & 3-cell cooling tower and Alternator (TDPS make) with DCS system including generator protection panel, Synchronization, 24 MVA transformer panel and 11 KV panels, complete 66 kV switch yard, old & new power houseas well as Running Operation & Maintenance Contract for DCS System (Skilled DCS operators & filed operator is required (24 hour x 07 days)for handling the same turbine) during the crushing season 2026-27& 2027-28along with Mills Technical Staff. (excluding any specialized electrical work in alternator)**

a) The specification of 24 MW Power Turbine is as under: -

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Nominal output: - 25500 KW

Speed (Turbine/ Generator):- 6227/1500 RPM

Inlet steam pressure: - 86.3 Kg/Cm²

Inlet steam Temperature: - 505⁰C

1st Extraction steam pressure: - 10.7 Kg/ Cm²

2nd Extraction steam pressure: - 2.5 Kg/Cm²

b) Attached units: -

Operating Governor system make Woodward 505XT/505E, Alternator TDPS make , Lube oil system& oil coolers Enpro make, Ejector Mazda make, Condenser Godavari make, Condensate extraction pumps Sulzer make , 3-cell RCC cooling tower Paltech make, PRDSH 25kg/cm², 08 kg/cm² & 1.5 kg/cm², M.P.header and De-superheating system, Alternator TDPS make, AVR panel, generator protection panel, Synchronization panel, RTCC panel, 24 MVA transformer protection panel, feeder protection panel, battery charger panel-2 nos., 11 KV breakers of entire system etc. (only operation).

Note:

i) PRDSH 1.5 Kg/cm² started and closing operation during bad weather or breakdown, etc (if any).

ii) All routine repair and maintenance, troubleshooting and major job work (if required)& cleaning job work of 24 MW power turbine and its 3-cell RCC cooling tower during operation& maintenance and General cleanings.

C) Running Operation & Maintenance contract for Cane unloaders for unloading of cane from cane wagons i.e. truck and trollies etc. and feeding into main and auxiliary cane carriers during the crushing season along with Mills Technical Staff for season 2026-27 & 2027-28.

Main jobs to be carried out as under: -

- a) Operation of cane unloaders to suit the crush rate.
- b) Shift wise complete cleaning of cane unloader grabs and power packs etc.
- c) Attending of breakdown of cane unloaders along with mill staff.
- d) Checking main components cane unloader i.e. rail, wheel, brake, functioning of electrical components, leakages, and oil level etc.

Note:

If any dispute arises with cane vehicle owner during operation of cane unloader due to damage of wagon etc. to be sort out by contractor otherwise Mill have the right to do the same on the risk and cost of contractor.

D) Running/ operation contract for the repair & maintenance for mill house head fitters/ foreman, attendants, helpers for various carriers i.e. Bagasse carriers, Cane carriers & belt conveyors, bagasse belts, Main rake carrier etc. and preparatory devices i.e. fiberizer and head on cutter etc for mill house including attending shut down for mechanical jobs during the crushing season along with mill staff. Running/ operation contract for the operation of DCS at mill house i.e. SCADA and ACFC system for smooth operation/ working of mills in three shifts during crushing seasons including R shift for season 2026-27& 2027-28.

E) Running Operation & Maintenance contract including fitter, helpers, MPA and oilman for the repair & maintenance work as well as Operation of Centrifugal Section for mechanical jobs during the crushing season along with mill staff for season 2026-27& 2027-28.

F) Running/ operation contract for the repair & maintenance work including Fitter, helpers, MPA of Boiling House i.e. Evaporation section, Clarification section, Pan House, Crystallizers, Injection and Spray house (02 shifts) for mechanical jobs during crushing season along with mill staff for season 2026-27& 2027-28.

G) Khalasi for attending various repair maintenance jobs anywhere in plant during crushing season along with mill staff for season 2026-27& 2027-28.

H) Welders to attend the various repair and maintenance related jobs in plant during the crushing season 2026-27&2027-28.

I) Running operation for Mechanical Workshop having Lathe Machines, Shaper, Planner, Radial Drilling, Power Hacksaw, Smithy& Carpentry Shop during the crushing season 2026-27&2027-28 in all the three shifts along with mill staff.

Note:

The Contractor shall depute competent staff for Turning jobs, Machinists jobs, Smithy, and Carpentry jobs as well as material cutting / drilling jobs as per instructions of Workshop Engineer on daily basis. Daily cleaning of machines will also be in the scope of contractor during the crushing season three shifts (24 x 7) shall be operated in workshop and in case of emergent work contractor shall arrange the concerned staff in workshop. All the tools and measuring instruments shall be provided by the Mills.

J) Boiler Section jobs during season 2026-27&2027-28.

Running Operation & maintenance of 125 TPH Boiler & 87 Kg/cm² working pressure bagasse fired boiler with Distributed Control System (DCS) including its allied furnace, bagasse (fuel) feeding system, air feeding system, flue gas handling system, Boiler water testing & its feeding system to boiler, ash& bagasse handling system etc. along with utilising our existing available boiler manpower during crushing season 2026-27& 2027-28.

K) Running Operation & Maintenance and Trouble Shooting contract for all Electrical Equipment's/ Apparatus Installed in Co-Generation Plant including Mill Section, Boiler Section, Turbine Section, Cooling Tower, 02 nos. ETP, 66 kV switch yard and Process Section for the crushing season along with Mills Technical Staff. Complete Repair & Maintenance, Operation and Trouble Shooting jobs of Electrical Equipment's/ Apparatus Installed in Co-Generation Plant including Mill Section, Boiler Section, Turbine Section, Cooling Tower, 02 nos. ETP, 66 kV switch yard and Process Section for the crushing season 2026-27& 2027-28. Repair & maintenance of LED display installed at Mill gate is in Bidder scope however required material shall be provided by the Mills.

L) Operation & maintenance of VVFD drives of Boiler section, Mill house, Process section, DCS-400 PLC panels of 1250 Kg/charge Batch type Centrifugal machine (WIL), DCS-800 PLC panels of 1750 Kg/charge Batch type Centrifugal machine (WIL) and PLC panels of 1000 Kg/charge Batch type Centrifugal machine (Krupp.) of ABB make for the crushing season 2026-27 & 2027-28.

However trouble shooting of VVFD drives shall remain in the scope of Mill.

Annexure-E		
Tentative Jobs (Section-wise) and Manpower Requirement in Manufacturing Department along with Equipment Details for Operation of the 5000 TCD , Double Sulphitation Plant during off-Season 2026& 2027 and Crushing Season 2026-27 & 2027-28.		
The Station wise scope of work is detail mentioned below :-		
A.	Complete Operation of Evaporation Section & Clarification Section with prescribed Jobs for crushing Season 2026-27& 2027-28.	
	Detail of equipments in clarification section:	
	Sr. No.	Description
	1	Sulphur Burner
	2	Milk of Lime
	3	Juice Sulphitor
	4	Syrup Sulphitor
	5	Clarifier
	6	Rotary Vacuum filter 04 nos.
	Detail of equipments in Evaporation Section: -	
	Sr. No.	Description
	1	Semikestner- 02 nos
		Vapour Cell- 02 nos
		Falling Film Evaporator- 01 no

	Evaporator Set- 02 nos.	(1400+1100+750) M ² HSA new set & (1200+1100+440) M ² HSA for old set
	Juice heater for raw juice I heating - 02 nos.	0 M ² HSA for old set & 370 M ² HSA for new set
	Juice for raw juice II heating - 02 nos	330 M ² HSA for each set
	Juice heater for raw juice III heating - 03 nos.	280 M ² HSA condensate juice heater
8	Sulphited juice heater - 04 nos	260 M ² HSA
9	Clear juice I & II heating	180 M ² HSA & 260 M ² HSA
10	Direct contact juice heater	02 nos.

i) Tube cleaning of Evaporators, Juice Heaters and Pans during crushing season 2026-27& 2027-28 and after closure of crushing season 2026-27& 2027-28 with cutter & brushes will be in the scope of the agency/bidder.If any tubes are found jammed or choked due to Cutter material left inside tubes, or Scale deposition. The bidder /agency shall open, clean, and restore such tubes to proper working condition.

ii) During the hydraulic testing in off season 2027 and crushing season 2026-27& 2027-28, if any tubes leaks /puncture tubes (of Juice Heaters, Evaporators bodies,FFE , and Batch Pans & continuous pans) from expand or inside the tubes, tube expanding / replacement work shall be carried out by the bidder/agency.

iii) Hammer testing will be in the scope of bidder

Note: - Material: All required consumable items will be in the scope of Sugar Mill.

B.	Complete Operation of Pans and Crystallizer Section: - Operation of Pan Station: - The bidder/agency shall be responsible for the operation of Batch and Continuous Pans through qualified and experienced for pan boiling <table><tr><th>S.N.</th><th>Description</th><th>Equipment detail</th></tr><tr><td>1.</td><td>Low head vacuum Batch Pans - 03 Nos.</td><td>85 T Capacity</td></tr><tr><td>2.</td><td>Low head vacuum Batch Pans - 01 Nos.</td><td>60 T Capacity</td></tr><tr><td>3.</td><td>Low head vacuum Batch Pans - 03 Nos.</td><td>40 T Capacity</td></tr><tr><td>4.</td><td>B-Continuous Pan (with complete automation)- 1Nos</td><td>30 T/Hr Capacity</td></tr><tr><td>5.</td><td>C-Continuous Pan.(with complete automation)- 1 Nos</td><td>25 T/Hr Capacity</td></tr><tr><td>6.</td><td>Vacuum crystallizer - 3 Nos.</td><td>60 TON Capacity</td></tr><tr><td>7.</td><td>Dry seed crystallizer - 1 No.</td><td>45 TON Capacity</td></tr><tr><td>8.</td><td>Moist sugar crystallizer - 1 No.</td><td>40 TON Capacity</td></tr><tr><td>9.</td><td>Molasses conditioners -4 Nos</td><td>(A.H, B.H, C.L&C1.H).</td></tr><tr><td>10.</td><td>Air cooled crystalizers used for A/B/C/ C1 massecuite</td><td>12 Nos</td></tr><tr><td>11.</td><td>B & C vertical crystalizers</td><td>02 Nos.</td></tr><tr><td>12.</td><td>B & C massecuite receiving crystalizers</td><td>02 Nos.</td></tr></table>	S.N.	Description	Equipment detail	1.	Low head vacuum Batch Pans - 03 Nos.	85 T Capacity	2.	Low head vacuum Batch Pans - 01 Nos.	60 T Capacity	3.	Low head vacuum Batch Pans - 03 Nos.	40 T Capacity	4.	B-Continuous Pan (with complete automation)- 1Nos	30 T/Hr Capacity	5.	C-Continuous Pan.(with complete automation)- 1 Nos	25 T/Hr Capacity	6.	Vacuum crystallizer - 3 Nos.	60 TON Capacity	7.	Dry seed crystallizer - 1 No.	45 TON Capacity	8.	Moist sugar crystallizer - 1 No.	40 TON Capacity	9.	Molasses conditioners -4 Nos	(A.H, B.H, C.L&C1.H).	10.	Air cooled crystalizers used for A/B/C/ C1 massecuite	12 Nos	11.	B & C vertical crystalizers	02 Nos.	12.	B & C massecuite receiving crystalizers	02 Nos.						
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C.	Complete operation of Centrifugal Station & Dryer House Details of Equipment/machinery installed at Centrifugal section are mentioned below <table><tr><th>S.N.</th><th>Description</th><th>Equipment detail</th></tr><tr><td>1.</td><td>Batch type centrifugal machine (Make – WIL) - 01 No.</td><td>1750 Kg/Charge</td></tr><tr><td>2.</td><td>Batch type centrifugal machine (Make – NHEC) - 01 No</td><td>1750 Kg/Charge</td></tr><tr><td>3.</td><td>Batch type centrifugal machine (Make - WIL) - 02 Nos.</td><td>1250 Kg/Charge</td></tr><tr><td>4.</td><td>Continuous Centrifugal Machines (Make NHEC)- 03 Nos</td><td>NK-1503</td></tr><tr><td>5.</td><td>Continuous Centrifugal Machines (Make NHEC)- 06Nos</td><td>NK-1100</td></tr><tr><td>6.</td><td>Continuous Centrifugal Machines (Make Patange) -1 No.</td><td>NK-1100</td></tr><tr><td>7.</td><td>Continuous Centrifugal Machines (Make Krupp) -1 No.</td><td>TKC-1500T</td></tr><tr><td>8.</td><td>Magma Mixer for B Cont. Machine -1 No</td><td></td></tr><tr><td>9.</td><td>Magma Mixer for C Cont. Machine -1 No.</td><td></td></tr><tr><td>10.</td><td>Magma Mixer for CI Cont. Machine - 1 No</td><td></td></tr><tr><td>11.</td><td>Magma Mixer for CAW Cont. Machine - 1 No.</td><td></td></tr><tr><td>12.</td><td>B & C SugarMelter - 1 No.</td><td></td></tr><tr><td>13.</td><td>BISS Sugar melter -1 No</td><td></td></tr><tr><td>14.</td><td>RoriMelter - 1 No.</td><td></td></tr></table>	S.N.	Description	Equipment detail	1.	Batch type centrifugal machine (Make – WIL) - 01 No.	1750 Kg/Charge	2.	Batch type centrifugal machine (Make – NHEC) - 01 No	1750 Kg/Charge	3.	Batch type centrifugal machine (Make - WIL) - 02 Nos.	1250 Kg/Charge	4.	Continuous Centrifugal Machines (Make NHEC)- 03 Nos	NK-1503	5.	Continuous Centrifugal Machines (Make NHEC)- 06Nos	NK-1100	6.	Continuous Centrifugal Machines (Make Patange) -1 No.	NK-1100	7.	Continuous Centrifugal Machines (Make Krupp) -1 No.	TKC-1500T	8.	Magma Mixer for B Cont. Machine -1 No		9.	Magma Mixer for C Cont. Machine -1 No.		10.	Magma Mixer for CI Cont. Machine - 1 No		11.	Magma Mixer for CAW Cont. Machine - 1 No.		12.	B & C SugarMelter - 1 No.		13.	BISS Sugar melter -1 No		14.	RoriMelter - 1 No.	
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D.	Quality Control Laboratory: - Complete Operation ofLaboratory for the off season 2027 &crushing season 2026-27& 2027-28 Following work will be in the scope of agency/bidder. Analytical Work: - Sample collection (sugar cane, juices (Primary juice, mixed juice, last mill juice, clear juice, filtrate juice, bagasse, unsulphited syrup and analysis Brix, pol, purity. i) Preparation of samples all juice sample & molasses,masssecuite sample, analysis of all samples in every shift and maintain the records in log book																																													

	ii) Special analysis i.e. Sugar Colour ICUMSA, reducing sugar, dextran, T.R.S., Brix curve, Cao content, Phosphate content, Color balance etc.as per direction of Lab Incharge and Chief Chemist/Chief Engineer. iii) Equipment cleaning work.				
E.	Molasses Recording and loading : - <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Description</th></tr> </thead> <tbody> <tr> <td></td><td> Molasses Loading & recording in off season 2026 & 2027 and crushing season 2026-27 & 2027-28. The mill has installed 05 nos. molasses storage tanks and 02 nos. tanks at the ethanol plant. A total of 04 nos. lifting points are available with the mill. </td></tr> </tbody> </table>	Sr. No.	Description		Molasses Loading & recording in off season 2026 & 2027 and crushing season 2026-27 & 2027-28. The mill has installed 05 nos. molasses storage tanks and 02 nos. tanks at the ethanol plant. A total of 04 nos. lifting points are available with the mill.
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F.	Complete Operation of 02 Nos. Effluent treatment Plant during crushing season 2026-27& 2027-28 and one no. ETP during off season 2027 1. Running operation of 02 Nos. Effluent treatment Plant (ETP), each having a capacity of 1250 M3/day (including all the equipment such as Equalisation/ Neutralisation Tank, Lime mixer , Primary Clarifier, Aeration tank , Secondary Clarifier , Sludge bed, MGF Filter and Activated Carbon Filter) during the crushing season 2026-27 & 2027-28 and one no. E.T.P. during the off-season 2027 in compliance with guidelines/directions of HSPCB/CPCB//NGT. Sludge Handling:-periodically (at every one month) cleaning of all sludge bed (08 no's) using a tanker. Sludge to be collected and shifted to the designated place as specified. The bidder shall also ensure compliance with the following : 1. The operation of two ETP plants will commence one month prior to the start of the crushing season and continue until one month after the end of the crushing season. During the remaining off-season period, only one ETP plant will be kept in operation 2. All consumable like Cow dung, Lime, Chemicals, DAP, Urea etc. will be provided by the Mills free of cost. 3. Mills has the right to check the random sample treated water outlet through ETP and treated storage. 4. All tool and tackles included specialize tools in the bidder scope. 5. BOD, COD, TSS, and PH of the treated effluent from the discharge point shall be within the norms of HSPCB/CPCB/NGT. 6. If any penalty imposed by the HSPCB/CPCB/NGT or other Govt. authorities/department on the Mills, then agency/bidder will be responsible for the same. 7. Every month the sample of treated water are to be got tested by the NABL certified Lab and report will be submitted by agency/bidder. 8. Cleaning of all sludge bed (08 nos.) by using tanker & to be shifted at the specified place will be in the scope of bidder. All the sludge bed should be empty at the time of stop of ETP. 9. BOD checking should be periodically & report to be checked by the Mills officer. COD, TSS to be checked every day, BOD to be checked twice in a week. 10. Bidder will responsible for cleaning of E.T.Ps. & respect and drainage. 11. The Mill will have right to check the work & presence of staff posted by you at E.T.Ps. 12. All workers required for operation of E.T.P. will be arranged by the agency/bidder as per latest guidelines and direction issued by the HSPCB/CPCB/NGT				

	13. Bidder will follow all laws of land. 14. Housekeeping around and surrounding areas of the 02 nos ETPs plant shall be in the scope of bidder /agency.																										
G	Sugar handling job at Dryer house and Godown during the crushing season 2026-27& 2027-28 and handling of BISS Sugar after closure of the crushing season 2026-27 & 2027-28. <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Description of Work.</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Opening the bundles of empty (jute bags) bags from the mill store, sorting out the torn bags and marking the empty bags with the help of printing machine.</td></tr> <tr> <td>2.</td><td>In The Dryer House filling of empty bags from the sugar bin and grader-wise and stitch them using its own operators and machinery. The stitched bags shall be removed and stored grade-wise, with proper grade marking and tagging on jute bags. Serial numbers on PP bags shall be marked using a laser machine to be arranged by the bidder at his own cost. Any unweighted or unstitched bags found shall be weighed on the platform scale and stitched without any additional payment. During loading and handling, any torn or damaged sugar bags received from the Dryer House or warehouse shall be refilled, with no separate remuneration payable for such work. The bidder shall be fully responsible for any discrepancy in the weight of PP or jute bags.</td></tr> <tr> <td>3.</td><td>Tags shall be printed on PP bags using a laser printing machine as per guidelines of Haryana Sugarfed. The required laser printing machine shall be arranged by the bidder at its own cost</td></tr> <tr> <td>4.</td><td>Loading of 50 kg sugar bags from the Dryer House to the prescribed stacking height (55 bags) in all mill godowns and temporary godowns located outside the mill shall be carried out using manual stackers. No separate cart charges shall be payable. The packing, handling, and systematic stacking of sugar in 50 kg, 10 kg, 5 kg, 2 kg, and 1 kg HDPE bags, and their transfer to the godowns, shall be done in an orderly and proper manner.</td></tr> <tr> <td>5.</td><td>Collect the bales of PP liners from the mill store and put them in printed bags and keep the torn PPE packing material in an orderly manner at the place specified by the Chief Chemist/Godown Incharge.</td></tr> <tr> <td>6.</td><td>In case of damage to sugar bags due to labour negligence during handling, lifting, stacking in the Dryer House and godowns, the bidder shall be responsible for refilling the damaged bags. No additional payment or reimbursement shall be admissible to the bidder for this work.</td></tr> <tr> <td>7.</td><td>Unloading of bales of jute and PP bags from trucks and stacking them up to the prescribed height shall be carried out by the bidder . No separate payment shall be admissible for this activity.</td></tr> <tr> <td>8.</td><td>Torn bags from the sugar warehouses shall be refilled and, after weighing and stitching, stacked up to a height of 55 bags. Old empty bags and PP liners shall be systematically stored at the location specified by the Chief Chemist and/or Godown Incharge. The bidder shall arrange hand stitching machines at his own cost.</td></tr> <tr> <td>9.</td><td>Weighing and machine-stitching of brown sugar bags produced at the end of the the crushing season 2026–27& 2027-28during process liquidate, shall be carried out including shifting to the Dryer House and Godowns and stacked up to a height of 25 bags in a systematic manner</td></tr> <tr> <td>10.</td><td>Wet sugar shall be transported from the sugar godowns to the centrifugal house/hopper for re-processing. The re-processed sugar shall be filled into bags, weighed, and machine-sealed, and thereafter again transported from the Dryer House to the Godowns and stacked in an orderly manner. No separate cartage charges or additional expenses shall be admissible for this work.</td></tr> <tr> <td>11.</td><td>Transporting bags of brown sugar produced in the Crushing season 2025-26& 2026-27 from the warehouse to the sugar melter as per requirement. No separate cartridges will be provided.</td></tr> <tr> <td>12.</td><td>The stitching machine heads shall be repaired by the bidder/firm at the commencement of the crushing season 2026-27 & 2027-28. Thereafter, the bidder/agency shall be fully responsible for their maintenance and repair throughout the crushing season2026-27 &</td></tr> </tbody> </table>	Sr. No.	Description of Work.	1.	Opening the bundles of empty (jute bags) bags from the mill store, sorting out the torn bags and marking the empty bags with the help of printing machine.	2.	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6.	In case of damage to sugar bags due to labour negligence during handling, lifting, stacking in the Dryer House and godowns, the bidder shall be responsible for refilling the damaged bags. No additional payment or reimbursement shall be admissible to the bidder for this work.																										
7.	Unloading of bales of jute and PP bags from trucks and stacking them up to the prescribed height shall be carried out by the bidder . No separate payment shall be admissible for this activity.																										
8.	Torn bags from the sugar warehouses shall be refilled and, after weighing and stitching, stacked up to a height of 55 bags. Old empty bags and PP liners shall be systematically stored at the location specified by the Chief Chemist and/or Godown Incharge. The bidder shall arrange hand stitching machines at his own cost.																										
9.	Weighing and machine-stitching of brown sugar bags produced at the end of the the crushing season 2026–27& 2027-28during process liquidate, shall be carried out including shifting to the Dryer House and Godowns and stacked up to a height of 25 bags in a systematic manner																										
10.	Wet sugar shall be transported from the sugar godowns to the centrifugal house/hopper for re-processing. The re-processed sugar shall be filled into bags, weighed, and machine-sealed, and thereafter again transported from the Dryer House to the Godowns and stacked in an orderly manner. No separate cartage charges or additional expenses shall be admissible for this work.																										
11.	Transporting bags of brown sugar produced in the Crushing season 2025-26& 2026-27 from the warehouse to the sugar melter as per requirement. No separate cartridges will be provided.																										
12.	The stitching machine heads shall be repaired by the bidder/firm at the commencement of the crushing season 2026-27 & 2027-28. Thereafter, the bidder/agency shall be fully responsible for their maintenance and repair throughout the crushing season2026-27 &																										

2027-28.

13. The bidder/agency shall be responsible for the repair and maintenance of sugar stackers during the off-season and the crushing season. During the season, the agency shall also be responsible for the repair and maintenance of all slat conveyors and belt conveyors and stackers in the Dryer House and Godowns.

The bidder shall also ensure compliance with the following :-

1. The Mills will provide stacker, twine thread, jute machine, consumables i.e. PP bags and wooden planks to the bidder. Bidder will have to provide (laser printing) on Bags according to the sample provided by the mill, but Bidder will have to arrange manpower and machine to stitch the refilled sugar bags in the Godowns. (No extra payment will be made for the said work).
2. The bidder shall carry out the work under the direction of the mill officials, sugar stacks must be placed in such a manner that they do not fall and that the bags can be easily counted. Any damage caused by improper stacking, etc., will be compensate by the bidder.
3. Bidder must ensure that continue packaging and stacking of Grade wise Sugar bags i.e. L-30, M-30, S-30 in dryer house and godowns. In the condition of less production or bin overflow the mill committee has the right to carrying out the said job at the bidder risk and cost.
4. The work of packaging and stacking of the sugar bags must be carried out in all three shifts (24 hours). Dirty or clean sugar lying in the dryer house floor must be picked up twice per shift and delivered to the designated location. The Kota stone in the dryer house must be cleaned 24 hours a day to prevent the sugar from being spoiled. Otherwise, this work will be done at Bidder risk and cost, and the collected sugar will have to be reprocessed at the location specified by the officials of the Manufacturing Department.
5. Bidder shall ensure that sugar bags stacking in such a manner to prevent any damage of sugar bags. In case any bags are damaged during handling or stacking, the sugar shall be refilled in the bags. No additional charges shall be paid by the mill for refilling work.
6. Before stacking in the godowns, mats and polythene sheets shall be properly laid. The mats and polythene shall be regularly swept and maintained in an orderly condition. Necessary arrangements shall also be made for the cleaning of spilled sugar in the godowns to ensure proper cleanliness and hygiene in all storage areas. Lime drums shall be placed at both entrances of all sugar godowns, and the lime shall be replaced periodically as required. No extra payment shall be made for the above-mentioned works.
7. Bidder must provide supervisors, in every shift during crushing season at the mill premises to attend the work satisfactorily. In case of non-deputation of supervisor in the dryer house mills has the right to depute supervisors on the bidder risk and cost.
8. After completion of all sugar stacking by Bidder, it shall be mandatory to cover the stacks with tarpaulin within 15 days of completion of counting. In case of failure, the work shall be executed at Bidder risk and cost. Further, if the bidder does not get the sugar stacks covered in the sugar godowns, bidder shall ensure that the same is completed within 15 days after completion of counting and submit a compliance report to the G.I. / Chief Chemist. In case of non-compliance, a penalty of ₹500/- per stack per day shall be imposed after the stipulated period, which shall be recoverable from the Bidder.
9. In case of any unruly, indiscipline behavior by Bidder workers, Mills shall have the right to remove such worker(s) from duty for an indefinite period, without any prior notice.
10. Extra manpower is in the bidder scope.
11. If any penalty is imposed on the mill by any government department due to the bidder, the mill will

recover the compensation for the same from the bidder.

12. During stacking no use of latches (kundi) on the bags. If Bidder workers are found using latches during stacking the sugar bags in godowns , the mill will fine of Rs.100per bag to the bidder.
13. The bidder/firm shall servicing and overhauling of all stitching machines head will be in the scope of bidder during off season and crushing season. On closure of the mill, all machines must be returned in healthy working condition, failing which repair costs shall be recovered from the bidder's bill at their risk and cost.
14. The bidder will be responsible for the repair and maintenance of sugar stackers Furthermore, upon mill closure, all sugar stackers must be returned to the dryer house in working condition. Otherwise, the cost of repairing the sugar stackers will be deducted from bidder bill at Bidder risk and cost.
15. The bidder shall arrange labour for loading sugar onto 6 tractors – trolleys vehicle along with driver for 4 grade wise sugar. All supplied trolleys must have clean and smooth surfaces to prevent damage of sugar bags during handling.
16. In case of any dispute, the decision of the Managing Director will be final.
17. During the crushing season, sugar removed during bin cleaning shall be collected by Bidder labour and transferred to the melter as directed by chief chemist. No additional payment shall be admissible for this work.
18. During the crushing season, due to improper sugar handling, sugar falls down from sugar bin due to overflow then a fine of Rs. 10000/- per day/per bin will be imposed.
19. If any work is not completed in time and causes stoppage of mill operations, it shall be got done at bidder risk and cost, and resulting financial loss shall be recovered from bidder as decided by the Mill Management.
20. Consumption of intoxicants (tobacco, bidi, cigarettes, alcohol, etc.) is strictly prohibited during work. Any violation shall invite disciplinary action against the bidder, along with a penalty of Rs. 1000 per person imposed by the Mills, as there is a possibility of contamination of the packed bags due to traces of intoxicants.

H.	Job work of cleaning, chipping, painting and White washingof the various equipments in Clarification Section during the off - season 2027 as per details given below :-
1.	a) Complete Internal & External cleaning, chipping, painting, Oil Application and White Washing of the following equipments/units wherever required at the, 02 nos Juice Sulphitor with absorption tower, 2 nos. Syrup Sulphitor, sulphited Juice receiving Tank, Pump Catchers, both Syrup Sulphitor outlet Pipe Line upto syrup supply tank of pan, 03 nos. Sulphur Furnace and its related SO, Gas pipelines, Coolers etc., 1 no. Dorr (Clarifier) and its related pipelines, muddy juice tank and respective suction & delivery pipe lines , receiving bottles catcher of 4 nos. Vacuum Filter Drum with its accessories, Condenser, SS. Screen, Bagacillo line, Bagacillo Cyclone, Bagacillo, M.S Screen & pipelines, Mud Mixture and Mud Tank, Lime Slacker drum, lime classifier, grit conveyor 04 nos. MOL. Tank and its related pipeline, pump catcher ,etc. b) Complete cleaning and chipping of related staging and structure of vessels and equipments excluding building columns & structure. c) All Platform and floor to be cleaned every day.
I	Job work of cleaning, chipping, painting and white washing of the various equipments in the Pan station, Crystallizer section during the off - season 2027 as per details given below:-

1.	a) Complete Internal & External cleaning, chipping, painting, Oil Application and White washing of the following equipments/units wherever required at all syrup, Melt, molasses supply tanks at pan station, 04 nos. Molasses conditioners. All vapour pipe, Syrup, Melt, Molasses, steam lines, top & bottom tube plate, saveall, down take, bodies of 07 no. batch Pan & 02 no. Continuous Pan with receiving Crystallizers & grain pump with section and delivery line, Dry seed & Moist sugar Crystallizers. 13nos. condensers with pit, 12 nos. Crystallizer, vertical Crystallizers (B&C), 03 nos. vacuum Crystallizers, Massecuite gutters from Pan to Crystallize etc. b) Complete cleaning and chipping of related staging and structure of vessels and equipments excluding building columns & structure. c) All platform and floor are to be cleaned every day.
J	Job work of cleaning, chipping, painting and white washing of the various equipments in the Centrifugal and Drier House during the off - season 2027 in all respect as per details given below:-
1.	a) Complete Internal & External cleaning, chipping, painting, Oil Application and White Washing of the following equipments/units wherever required at Massecuite Gutter from Crystallizer to Centrifugal, A, B and C Pug Mill, 6 nos. Batch Type Machines, 11 nos. Continuous machine, Gutters and Molasses Run off Tanks with Related Pipeline, 2 no. Melters, All Magma Mixture and its related line, final molasses weighing scale, Multi-tray and all gross hopper, both Fluidized Bed dryer and its related tanks. 2 nos. Sugar Graders, 3 nos. Sugar Elevators along with pit, 3 nos. Sugar Bin, etc. b) Complete cleaning and chipping of related staging and structure of vessels and equipments excluding building columns & structure. c) All platform and floor are to be cleaned every day
K.	Job work of cleaning, chipping, painting and White washing of the 05 no's Molasses storage tanks during off season 2026 & 2027 and crushing season 2026-27 & 2027-28 as per details given below:-
1.	Job to be carried out as under:- • Recovery of molasses from storage tanks and same to be shifted to other molasses tanks. • Internal washing, cleaning chipping of the tank and scale & sludge to be shifted at specified place. • Internal single coat painting of bottom surface and side shell round plate of the respective tanks. • Disposal of all garbage at specified place. All Tools and tackles will be in the scope of Bidder.
L	Job work of cleaning, chipping, painting and white washing of Spray Pond along with Injection Channel and Spray pump Channel and respective pumps , pipes lines and nozzles (Off season 2026& 2027). The complete description of job is as under:-
1.	a) Approx. quantity of sludge to be removed – 1200 cubic meter. b) Surface area of enclosure of spray pond along with injection/inlet/outlet channel and their pump areas to be cleaned and white washed – approx. 1400 square meter. Surface area of pipelines to be cleaned and painted – 250 square meter. c) Sludge, garbage etc. to be collected and same to be dumped outside the Mills. d) All pipe lines (M.S. & PVC), cluster, and nozzles to be cleaned (inside & outside). Dewatering of spray

	pond and injection channel will be in bidder scope. e) All PVC pipe, PVC branch, nozzle etc. cleaning in all respects in Bidder scope. Dewatering of injection channel and spray pond in the scope of the Bidder. f) All tools & tackles (dewatering pump, kassi, basket etc.) will be in scope of the Bidder. • Note :- • No use of tractor inside the spray pond floor. • Cleaning and removal of sludge from the spray pond, including an approximate 2-meter surrounding area, shall be the scope of the Bidder.
M	Job work of cleaning, chipping, painting and white washing of 02 Nos ETP Plants complete in all respect (off season 2027). The complete description of job is as under :-
	A. Cleaning, chipping, whitewashing, and painting of two (02) ETP plants, including, lime preparation tank Untreated Tank, Primary Clarifier, Secondary Clarifier, Aeration Tank, and Treated Water Tank. a) Approximate quantity of sludge to be removed: 500 cubic meters. b) Approximate surface area to be cleaned and subsequently whitewashed: 1300 sq. m. c) Approximate surface area to be cleaned and painted: 100 sq. m. d) Disposal of waste lime, grit, sludge, garbage, and other debris at the specified location as directed by the Dy.CC/ chief chemist. e) Internal and external whitewashing of the complete ETP system. f) Painting of all steel structures and pipelines. g) Dewatering of both ETP plants shall be in the Bidder's scope
1.	B. Cleaning, Washing, and Painting Work of Sludge Beds, Carbon Filters, and Pucca Pit. The work comprising various activities related to eight (08) nos. sludge beds and four (04) nos. carbon filters (M.S. tanks), along with cleaning, washing, and painting at both ETP and Pucca Pit, is required to be carried out on a contract basis during the off-season 2027. The details of the work to be carried out are as under: a) Removal of all sand and pebbles from the sludge beds and carbon filters. b) Cleaning and washing of all pebbles. c) Refilling of sludge beds and carbon filters with graded material as per prescribed sizes. d) Disposal of sludge, garbage, and other waste at the place specified by the Dy.CC /Chief Chemist e) Cleaning, washing, and whitewashing of all eight (08) sludge beds. f) Internal and external painting of four (04) carbon filters. g) Dewatering, cleaning, and whitewashing in all respects of the pucca pit of approximate capacity 4600 m³ at the old ETP plants.

Cluster -2

2. The Sonipat Coop. Sugar Mills Ltd., Sonipat

Scope of Work for off- season 2026 and crushing season 2026-27:

Sr.no.	Description of Job's
	WORK SCOPE IN ENGINEERING DEPARTMENT DURING Off-SEASON 2026-27:-
1.	Overhauling, Repair & Maintenance of complete Mill House (04 Nos. Mills) including Mills Transmission System, cane unloaders, Preparatory Devices [Cane Kicker (01no.), Cane cutter (02nos.), Fibrizer (01no.)], Cane carrier (02 nos.), Rack Elevator (01no.), Inter rack carriers (03 nos.), Bagasse Elevator, Main Bagasse Carrier, Return bagasse carrier, surplus bagasse carrier work]. Mills Rollers Grooving and turning work on lathe machines in workshop by qualified turner, Mills Turbines accessories repair work (Power turbine will be overhauled by its original manufacturer M/S Triveni Turbines Ltd), Mills Juice pumps & pipe lines, all Drives of Mills House, Cane Carrier & Bagasse Carrier Chains, Inter rack carriers chains, General Fabrication work will be in party scope. Excluding- Electrical, instrumentation, Mill turbine AMC(Overhauling) works will be in mill scope
2.	Overhauling, Repair & Maintenance of both Boilers (25 Tons each) having working pressure 21 kg / cm ² complete in all respect including all accessories, ID, FD, S.A & P.A Fans, Wet Scrubber, Main Steam Header and it's accessories, boiler mounting in all respect, PRD Station, R.O. Water feeding (But R.O. will be overhauled by the bidder & spares will be in mill scope), Boiler Water Feed Pumps, fabrication work will be in party scope. Excluding - external ash cleaning (one time), Internal tubes cleaning with flexible shafts, Boiler Chimney cleaning only one time before crushing, major jobs of re-tubing and modifications etc. General Fabrication work will be in party scope.
3.	Overhauling, Repair & maintenance of complete Pan Station, all evaporators and FFEs, all crystallizers including vacuum crystallizers, vertical crystallizer, Effluent Treatment Plant (E.T.P) etc. Repair of flexible shafts for cleaning of tubes for Pans, evaporators, Juice Heaters. Repair of all jute Sugar Bags printing machine Excluding –Overhauling, repair & maintenance of boiling house (all pumps, injection house, spray house, service pumps, all tube wells, Sulphur furnace, lime station, clarifier, vacuum filter, juice heaters, juice weighing scale station etc.) General Fabrication work will be in party scope. 30% work of Pan, Crystallizer and evaporator station was completed.
4.	Overhauling, Repair & maintenance work of complete Centrifugal station including A- Class batch type machine (03nos.), B and C-class Continuous centrifugal machines (07 Nos) along with all driving units such as redicon gearboxes of magma mixer, High flow pumps, magma and molasses pumps, melter pumps, condensate pumps, vertical crystallizers along with all driving units, entire sugar house/drier house up to molasses tank driving units etc. complete with in all respect. General Fabrication work will be in party scope.Dismantling of all the Continuous machines completed.
5.	Machining jobs related to Shaper and Planer like machining of Trash Plate, Mills House Scarpers, Keys & Key-ways and all the machining work related to shaper and planer of Workshop will be in the scope of Bidder. General Fabrication work will be in party scope.
	WORK SCOPE IN ENGINEERING DEPARTMENT DURING CRUSHING SEASON 2026-27:-
1.	Operation and Repair & Maintenance for smooth functioning of complete Mills House (04 Nos. Mills) including Mills Transmission System, cane unloaders, Preparatory Devices [Cane Kicker (01no.), Cane cutter (02nos.), Fibrizer (01no.)], Cane carrier (02 nos.), Rack Elevator(01no.), Inter rack carriers (03 nos.), Bagasse Elevator, Main Bagasse Carrier, Return bagasse carrier, surplus bagasse carrier work, Mills Turbines (02 Nos.), Cleaning of Cane Carrier Chain (complete under and over) and Mills Beds in each shifts. General Fabrication work will be in party scope. Excluding-Electrical, instrumentation, Mill turbine AMC works.
2.	Operation and Repair & Maintenance for smooth functioning of complete Boilers House having both Boilers (25 Tons each) with working pressure 21 kg / cm ² including complete operation to run Boilers and it's accessories like ID & FD Fans, Wet Scrubber, Boiler Water Feed Pumps, Main Steam

	Header, Bagasse Feeding & handling, Ash cleaning from Boiler Furnaces & Chamber, R.O. Water feeding. Repair & Operations of R.O will be in scope of the party. Operation of the wet scrubber station for crushing season 2026-27 including a period of before the start of crushing season and after closer of crushing season 2026-27 as per guidelines / norms of CPCB / HSPCB and Bidder will be responsible for Penalty imposed by CPCB/HSPCB (If any). It is the solo responsible of bidder to transfer the data to pollution control Board CPCB/HSPCB. Fabrication will be in party scope. EXCLUDING- Electrical & instrumentation work, major repair jobs like re-tubing work, major fabrication jobs/major modification jobs
3.	Operation & Overhauling, Repair & maintenance work of complete Centrifugal station including A-Class batch type machine (03 nos.), B and C-class Continuous centrifugal machines (07 Nos) along with all driving units such as redicon gearboxes of magma mixer, High flow pumps, magma pumps, melter pumps, condensate pumps, vertical crystallizers along with all driving units, entire sugar house up to molasses tank etc. complete with in all respect. NOTE: AMC of Electrical Panel of Batch Machines (03 Nos.) will be in scope of Mill.(As already finalized in BOA).
4.	Operation and Repair & Maintenance for smooth operation of Pan Station, crystallizers, all evaporators and FFE, including operation of Injection Pumps, providing blinds during Evaporator body changing. Repair of Effluent Treatment Plant (E.T.P) during off-season 2026 and during crushing season 2026-27 including a period of one month before the start of crushing season and till up-to one month after closer of crushing season 2026-27, repair of flexible shafts for cleaning of tubes for Juice heaters, Evaporators & Pans during season 2026-27. Repair of Sugar Bags printing machine as per complaints.
5.	Machining jobs related to Shaper, Planer, lathe like machining of Trash Plate, Mills House Scarpers, Keys & Key-ways, Grooving in old roller and all the machining work related to shaper, planer, of Workshop will be in the scope of Bidder.
WORK SCOPE IN MANUFACTURING DEPARTMENT DURING CRUSHING SEASON 2026-27:-	
6.	Complete Operation work of all stations in Boiling House (excluding the mfg. lab & drier house clerk) i.e. Arca station, F.F.Es, Evaporators Station, Juice Heaters, Juice & Syrup Sulphiters, Sulphur Furnaces, Lime Station, Clarifier, Pan Station, Crystallizers Station, Magma Mixture Station, Sugar Melter station, Sugar Hoppers, Sugar Graders with sugar Elevators, operation of PLC based Batch type centrifugal machines, Masecuite curing of A,B, CFW & CAW sugar, Dryer House like sugar production & other dryer house works etc. including preparation of MOL, shifting of grits, Unloading of Lime/Sulphur and Process chemical and Sulphur shifting from store to station. All equipments like syrup & juice sulphiter, Dorr, Jammed crystallizers, Gutters etc are to be cleaned whenever required. Complete housekeeping of all boiling house {(each station), (all pits enclosures, floor etc.)} Removal of brown sugar, Scrapping of sugar and plant washing immediate after closure of crushing season, tube cleaning of Evaporators, F.F.Es, juice heaters, & Pans during season and after closure of crushing season 2026-27. All these jobs to be done under the supervision of qualified Mfg. Chemists having the qualification as per Haryana Sugar fed. In season 2026-27 in each shift.
7.	Operation of ETP station during crushing season 2026-27 including a period of one month before the start of crushing season and till up-to one month after closer of crushing season 2026-27 as per guidelines / norms of CPCB / HSPCB and Bidder will be responsible for penalty imposed by CPCB/HSPCB (If any). It is the sole responsibility of bidder to transfer the data to pollution control Board CPCB/HSPCB.
8.	1. The firm will be bounded to carry the service with well qualify and experience staff in the various department which are not in party scope (e.g. Mechanical Engineer in each shift, Mechanical foremen in each shift, Turner (02 nos.) Electrical Engineer (01 no.), Electrician (02 nos.), wiremen (01 no.), SBA (03 nos.), Electrician helper (01 no.), lab Chemist (02 nos.), machinist (01 no.) Manufacturing chemist in each shift etc. as per required by the mill management. 2. Any major Fabrication & repair/ Capital items jobs/ Major modification jobs of the plant will be in mill scope.

Details of the work during the repair & maintenance of the off- season 2026, Station wise:

<u>Repairing and trial of both cane unloader for off-season 2026.</u>	
CANE UNLOADER 1st	
Sr. No.	Detail of Job
	TROLLEY
1	Dismantling of trolley wheels-4 nos., Pinions & pinion shafts welding, machining, fitting of bearings with all wheels
2	Trolley wheels Dismantling from site pinion shafts, bearings & plumber blocks repairing & fitting of pinion shafts at site.
3	Reduction gearbox dismantling, repairing & fitting at site.
4	Couplings fitting on reduction gearbox & motor alignment of motor.
	BRIDGE
1.	Dismantling of bridge wheels-4 nos., pinions & shafts
	Welding of wheels
	Machining of wheels
	Fitting of bearings & bearing plates with wheels
2	Dismantling of shafts
	Repairing of shafts
3	Fitting of wheels
	Fitting of shafts
4	Coupling fitting of reduction gearbox & motor
5	Alignment of motor
	GRAB
1	Dismantling of grab
2	Welding of grab fingers, grinding, drilling
3	Repairing of all pulleys & fitting with grab
4	Assembly of grab, fitting of wire rope
	Trial of all units
	LOAD & UNLOAD
1.	Dismantling of reduction gearboxes-2 nos. repairing
2.	Taking out of gears
	Fitting of gears
3	Repairing of wire rope drums
4	Fitting of motors & alignment
Note:- Fabrication work of both cane unloader done by contractor/scope of party	

CANE UNLOADER 2nd	
Sr. No.	Detail of Job
	TROLLEY
1	Dismantling of trolley wheels-4 nos., Pinions & pinion shafts welding, machining, fitting of bearings with all wheels
2	Trolley wheels Dismantling from site pinion shafts, bearings & plumber blocks repairing &

	fitting of pinion shafts at site
3	Reduction gearbox dismantling, repairing & fitting at site
4	Couplings fitting on reduction gearbox & motor alignment of motor.
	BRIDGE
1.	Dismantling of bridge wheels-4 nos., pinions & shafts
	Welding of wheels
	Machining of wheels
	Fitting of bearings & bearing plates with wheels
2	Dismantling of shafts
	Repairing of shafts
3	Fitting of wheels
	Fitting of shafts
4	Coupling fitting of reduction gearbox & motor
5	Alignment of motor
	GRAB
1	Dismantling of grab
2	Welding of grab fingers, grinding, drilling
3	Repairing of all pulleys & fitting with grab
4	Assembly of grab, fitting of wire rope
	Trial of all units
	LOAD & UNLOAD
1.	Dismantling of reduction gearboxes-2 nos. repairing
2.	Taking out of gears
	Fitting of gears
3	Repairing of wire rope drums
4	Fitting of motors & alignment
Note:- Fabrication work of both cane unloader done by contractor/scope of party	

Dismantling and Repairing, fitting and trial of cane leveller and both cane cutters during off season 2026-27	
Sr. no.	Detail of job
1.	Dismantling, repairing and fitting cane leveler and both cane cutters.
Note:- Fabrication work will be done by contractor/scope of party	

<u>Dismantling, Repairing, fitting and trial of both cane carrier for off-season 2026-27</u>	
Sr. no.	Detail of job
	Cane carrier no. 1
1	Repair of chain & fitting with slates
2	Repair of reduction gearbox
3	Repair and fitting of tail shaft & idler shafts
4	Dismantling of head shaft & pinion shaft
5	Repair & fitting of pinion shaft & head shaft
6	Dismantling and repairing of idler shafts
7	Fitting of reduction gear box, motor & alignment
8	Replacement of damage side plates, flat iron, beams columns etc.
9	Trial of cane carrier no. 1
	Cane carrier no. 2

1	Repair of chain & fitting with slates
2	Repair of reduction gearbox
3	Repair and fitting of tail shaft & idler shafts
4	Dismantling of head shaft & pinion shaft
5	Repair & fitting of pinion shaft & head shaft
6	Dismantling and repairing of idler shafts
7	Fitting of reduction gear box, motor & alignment
8	Replacement of damage side plates, flat iron, beams columns etc.
9	Trial of cane carrier no. 1
Note:- Fabrication work of both cane carriers will be done by contractor/scope of party	

Dismantling and Repairing, fitting and trial of fibrizer during off season 2026-27	
Sr. no.	Detail of job
1.	Dismantling, repairing and unloading of fibrizer and anvil plate with motor etc.
2.	Dismantling, repairing and fitting of fibrizer hammers with accessories and etc.
3.	Complete alignment and trial of fibrizer with motor etc.
4.	Dismantling, repairing, cleaning and fitting of water cooling pipe lines etc.
5.	Complete repairing forced lubrication oil system etc.
Note: - Fabrication work of Fibrizer will be done by contractor/scope of party if any.	

Dismantling and Repairing, fitting and trial of Mill House during off season 2026-27	
Sr. no.	Detail of job
1.	Repairing and fitting mill house along with alignment of all rollers, transmission pinion gears etc., all mill house pumps, hydraulic systems, lubricators, Rotary screen, all valves, all pipelines, all reduction gear boxes and driving arrangements, Imbibition tank along with all respect etc.
Note:- Fabrication work will be done by contractor/scope in party	

Complete dismantling, Repairing, Fitting and trial of rack carrier and inter rack carriers during off season 2026-27	
Sr. no.	Detail of job
1.	Complete repairing and Fitting trough of rack carriers with donally chutes etc.
2.	Replacement of flat iron of rack carrier and inter rack carriers etc.
3.	Repairing and Fitting of tail and head shafts of rack carrier 01 no. and inter rack carrier 06 nos. (Total shafts 08 nos.)
4.	Complete repairing, Fitting and alignment of reduction gear boxes with motor etc.
5.	Fitting of chains with racks of rack carrier and inter rack carriers etc.
Note:- Fabrication work of above said job will be done by contractor/scope in party	

Dismantling and Repairing, fitting and trial of both boilers during off season 2026-27	
Sr. no.	Detail of job
1.	Complete repair and maintenance work of both boilers with its all accessories i.e. I.D. fans, F.D. Fans, ducting's, S.A. fans, P.A. fan, bagasse, feeders, Reduction Gear Boxes, R.O. Plant, All feed pumps, all high pressure valves, economizer, air heater, super heater, wet scrubber plant system complete with pumps chimney and cleaning work, bagasse elevator chain, PRDS station with all

	valves and lines etc.(Only Major tube replacement if any will be in Mill's scope). Only boiler mounting dismantling work completed 100% and repairing work of boiler mounting was completed 25%.
Note:- Fabrication work will be done by contractor/scope in party	

S.No.	Particulars
1.	Bagasse elevator Carrier, repair, fitting and alignment with trials.
i	Drive End
ii	Non DriveEnd
iii	Chain
iv	Rakes
v	Runner &Turf
vi	Gear Box
vii	Coupling
viii	Drive Chain
S.No.	Particulars
1.	Main Bagasse Carrier, repair, fitting and alignment with trials.
i	Drive End
ii	Non DriveEnd
iii	Chain
iv	Rakes
v	Runner &Turf
vi	Gear Box
vii	Coupling
viii	Drive Chain
2	Return Bagasse Carrier dismantling, repair, fitting and alignment with trials.
i	Drive End
ii	Non DriveEnd
iii	Belt Conveyor
iv	Rakes
v	Runner &Turf
vi	Gear Box
vii	Coupling
viii	Drive Chain
Note: - Fabrication work will be done by contractor/scope in party.	
Note: Dismantling of Bagasse Elevator and Main bagasse carrier was completed.	

Sr.No.	Particulars
1.	Centrifugal Station and drier house
i	All batch type machines along with its accessories.
ii	All continuous type machines along with its accessories.
iii	All hoppers and grader along with its accessories.
iv	All elevators along with its accessories.
v	All Sugar bins along with its accessories.

vi	All pumps, redicons, mixtures, pug mills, valves along with its accessories.
vii	All transient heaters, super heater water wash systems along with its accessories.
viii	Complete drier house along with grader.
ix	Final Molasses weighing scale along with all pumps, lines up to molasses tank.
x	Vertical Crystallizer along with all driving and non-driving units, complete with respect.
xi	Lime Preparation, Sulphur feeding, lime and Sulphur shifting from godown to station, all chemical shifting from store to working place and empty drums send to store.

Sr. No.	Pan Station
01.	Complete overhauling, repairing and maintenance of pan station (all pans from 1 to 6) along with their all type valves, driving units, condensers, all pneumatic discharge valves, all pneumatic cut over valves and with all types' trials i.e. water trails, hydraulic, vacuum trials etc. during off-Season and Crushing Season 2026-27. (Dismantling & repairing work was 20% completed.)
Note:-	Fabrication work will be done by contractor/scope in party

Sr. No.	Crystallizer Station
01.	Complete overhauling, repairing and maintenance of Crystallizer station (all Crystallizer from 1 to 12, all vacuum crystallizer) along with their all type valves, driving units with all types' trials i.e. water trails, hydraulic trails of coils etc. during off-Season and Crushing Season 2026-27. (Dismantling & repairing work was 25% completed.)
Note:-	Fabrication work will be done by contractor/scope in party

Sr. No.	Evaporators Station & Both FFE.
01.	Complete overhauling, repairing and maintenance of Evaporators Station & Both FFE station (all Evaporators Station & Both FFE) along with their all type valves, driving units with all types' trials i.e. water trails, hydraulic trails, Vacuum trails etc. during off-Season and Crushing Season 2026-27. (Dismantling & repairing work was 30% completed.)
Note:-	Fabrication work will be done by contractor/scope in party

AMC of Various equipments for 2026-27

Sr. No.	Description	Qty.
1.	AMC of sugar bag stitching machine (02 nos slate conveyor chain and 05 nos. stitching heads) for crushing season 2026-27. Mill have 05 nos. sugar bags stitching machine heads and two nos. complete conveyor for stitching of sugar bags of the contractor shall do the said job through any experienced party.	05

2.	AMC of two No. auto sugar weighing machine for crushing season 2026-27. (Make Power Built machine) Mill have two nos. Auto sugar weighing machine of make M/s power built, Delhi= 02 nos. Contractor shall do the said job either through original manufacturer or through Expert person for trouble free running of machines. Spares required shall be arranged by the contractor. Auto weighing machine cleaned & checked in each shift for proper working.	02 nos
3.	Annual Maintenance contract for Water Emission(ETP) and air Emission(Stack) online data transfer:- Annual Maintenance contract for ETP online data transfer to the server of CPCB/HSPCB for the period from one month before the start for crushing season 2026-27 and one month after the closure of crushing season 2026-27. Stack Emission online data transfer to the server of CPCB/HSPCB for the period from the before the start for crushing season 2026-27 upto closure of the crushing 2026-27. Mill have installed online data transfer for system of treated effluent water through M/s NAVCO pvt. Ltd., the said supplier should have own server by which data of treated effluent water of sugar Mill Sonipat. Transfer to the Server CPCB/HSPCB hence contractor shall do said work through the original manufacture.	--
4.	Annual Maintenance contract of mini cooling tower for season 2026-27	1 nos
5.	AMC of Servicing and overhauling of sugar stacker.	3 nos
6.	AMC of Servicing and overhauling of the one no. of Screw air compressor along with air drier and 01 no. of vertical conventional air compressor	

Scope of Work for off- season 2027 and crushing season 2027-28:

Sr.no.	Description of Job's
	WORK SCOPE IN ENGINEERING DEPARTMENT DURING Off-Season 2027:-
1.	Overhauling, Repair & Maintenance of complete Mill House (04 Nos. Mills) including Mills Transmission System, cane unloaders, Preparatory Devices [Cane Kicker (01no.), Cane cutter (02nos.), Fibrizer (01no.)], Cane carrier (02 nos.), Rack Elevator (01no.), Inter rack carriers (03 nos.), Bagasse Elevator, Main Bagasse Carrier, Return bagasse carrier, surplus bagasse carrier work]. Mills Rollers Grooving and turning work on lathe machines in workshop by qualified turner, Mills Turbines accessories repair work (Power turbine will be overhauled by its original manufacturer M/S Triveni Turbines Ltd), Mills Juice pumps & pipe lines, all Drives of Mills House, Cane Carrier & Bagasse Carrier Chains, Inter rack carriers chains, General Fabrication work will be in party scope. Excluding- Electrical, instrumentation, Mill turbine AMC (Overhauling) works will be in mill scope
2.	Overhauling, Repair & Maintenance of both Boilers (25 Tons each) having working pressure 21 kg / cm ² complete in all respect including all accessories, ID, FD, S.A & P.A Fans, Wet Scrubber, Main Steam Header and it's accessories, boiler mounting in all respect, PRD Station, R.O. Water feeding (But R.O. will be overhauled by the bidder & spares will be in mill scope), Boiler Water Feed Pumps, fabrication work will be in party scope. Excluding - external ash cleaning (one time), Internal tubes cleaning with flexible shafts, Boiler Chimney cleaning only one time before crushing, major jobs of re-tubing and modifications etc. General Fabrication work will be in party scope.

3.	Overhauling, Repair & maintenance of complete Pan Station, all evaporators and FFEs, all crystallizers including vacuum crystallizers, vertical crystallizer, Effluent Treatment Plant (E.T.P) etc. Repair of flexible shafts for cleaning of tubes for Pans, evaporators, Juice Heaters. Chipping and cleaning of entire boiling will be in party scope (including ETP & Spray Pond along with channel). Repair of all jute Sugar Bags printing machine Excluding –Overhauling, repair & maintenance of boiling house (all pumps, injection house, spray house, service pumps, all tube wells, Sulphur furnace, lime station, clarifier, vacuum filter, juice heaters, juice weighing scale station etc.) General Fabrication work will be in party scope.
4.	Overhauling, Repair & maintenance work of complete Centrifugal station including A- Class batch type machine (03nos.), B and C-class Continuous centrifugal machines (07 Nos) along with all driving units such as redicon gearboxes of magma mixer, High flow pumps, magma and molasses pumps, melter pumps, condensate pumps, vertical crystallizers along with all driving units, entire sugar house/drier house up to molasses tank driving units etc. complete with in all respect. General Fabrication work will be in party scope.
5.	Machining jobs related to Shaper and Planer like machining of Trash Plate, Mills House Scarfers, Keys & Key-ways and all the machining work related to shaper and planer of Workshop will be in the scope of Bidder. General Fabrication work will be in party scope.
WORK SCOPE IN ENGINEERING DEPARTMENT DURING CRUSHING SEASON 2027-28:-	
1.	Operation and Repair & Maintenance for smooth functioning of complete Mills House (04 Nos. Mills) including Mills Transmission System, cane unloaders, Preparatory Devices [Cane Kicker (01no.), Cane cutter (02nos.), Fibrizer (01no.)], Cane carrier (02 nos.), Rack Elevator(01no.), Inter rack carriers (03 nos.), Bagasse Elevator, Main Bagasse Carrier, Return bagasse carrier, surplus bagasse carrier work, Mills Turbines (02 Nos.), Cleaning of Cane Carrier Chain (complete under and over) and Mills Beds in each shifts. General Fabrication work will be in party scope. Excluding-Electrical, instrumentation, Mill turbine AMC works.
2.	Operation and Repair & Maintenance for smooth functioning of complete Boilers House having both Boilers (25 Tons each) with working pressure 21 kg / cm ² including complete operation to run Boilers and it's accessories like ID & FD Fans, Wet Scrubber, Boiler Water Feed Pumps, Main Steam Header, Bagasse Feeding & handling, Ash cleaning from Boiler Furnaces & Chamber, R.O. Water feeding. Repair & Operations of R.O will be in scope of the party. Operation of the wet scrubber station for crushing season 2027-28 including a period of before the start of crushing season and after closer of crushing season 2027-28 as per guidelines / norms of CPCB / HSPCB and Bidder will be responsible for Penalty imposed by CPCB/HSPCB (If any). It is the solo responsible of bidder to transfer the data to pollution control Board CPCB/HSPCB. Fabrication will be in party scope. EXCLUDING- Electrical & instrumentation work, major repair jobs like re-tubing work, major fabrication jobs/major modification jobs
3.	Operation &Overhauling, Repair & maintenance work of complete Centrifugal station including A-Class batch type machine (03nos.), B and C-class Continuous centrifugal machines (07 Nos) along with all driving units such as redicon gearboxes of magma mixer, High flow pumps, magma pumps, melter pumps, condensate pumps, vertical crystallizers along with all driving units, entire sugar house up to molasses tank etc. complete with in all respect.
4.	Operation and Repair & Maintenance for smooth operation of Pan Station, crystallizers, all evaporators and FFE, including operation of Injection Pumps, providing blinds during Evaporator body changing. Repair of Effluent Treatment Plant (E.T.P) during off-season 2027and during crushing season 2027-28 including a period of one month before the start of crushing season and till up-to one month after closer of crushing season 2027-28, repair of flexible shafts for cleaning of tubes for Juice heaters, Evaporators & Pans during season 2027-28. Repair of Sugar Bags printing machine as per complaints.
5.	Machining jobs related to Shaper, Planer, lathe like machining of Trash Plate, Mills House Scarfers, Keys & Key-ways, Grooving in old roller and all the machining work related to shaper, planer, of Workshop will be in the scope of Bidder.
WORK SCOPE IN MANUFACTURING DEPARTMENTDURING CRUSHING SEASON 2027-28:-	
6.	Complete Operation work of all stations in Boiling House (excluding the mfg. lab & drier house clerk) i.e. Arca station, F.F.Es, Evaporators Station, Juice Heaters, Juice & Syrup Sulphiters, Sulphur Furnaces, Lime Station, Clarifier, Pan Station, Crystallizers Station , Magma Mixture Station, Sugar Melter station, Sugar

	Hoppers , Sugar Graders with sugar Elevators, operation of PLC based Batch type centrifugal machines, Masecuite curing of A,B, CFW & CAW sugar, Dryer House like sugar production & other dryer house works etc. including preparation of MOL, shifting of grits, Unloading of Lime/Sulphur and Process chemical and Sulphur shifting from store to station. All equipments like syrup & juice sulphiter, Dorr, Jammed crystallizers, Gutters etc are to be cleaned whenever required. Complete housekeeping of all boiling house {(each station), (all pits enclosures, floor etc.)}Removal of brown sugar, Scrapping of sugar and plant washing immediate after closure of crushing season, tube cleaning & replacement of leaky and damaged tubes of Evaporators, F.F.Es, juice heaters, & Pans during season and after closure of crushing season 2027-28. All these jobs to be done under the supervision of qualified Mfg. Chemists having the qualification as per Haryana Sugar fed. In season 2027-28 in each shift.
7.	Operation of ETP station during crushing season 2027-28 including a period of one month before the start of crushing season and till up-to one month after closer of crushing season 2027-28 as per guidelines / norms of CPCB / HSPCB and Bidder will be responsible for penalty imposed by CPCB/HSPCB (If any). It is the sole responsibility of bidder to transfer the data to pollution control Board CPCB/HSPCB.
8.	1. The firm will be bounded to carry the service with well qualify and experience staff in the various department which are not in party scope (e.g. Mechanical Engineer in each shift, Mechanical foremen in each shift, Turner (02nos.) Electrical Engineer (01 no.), Electrician (02 nos.), wiremen (01no.), SBA (03 nos.), Electrician helper (01no.), lab Chemist (02 nos.), machinist (01 no.) Manufacturing chemist in each shift etc. as per required by the mill management. 2. Any major Fabrication & repair/ Capital items jobs/ Major modification jobs of the plant will be in mill scope.

Details of the work during the repair & maintenance of the off- season 2027, Station wise:

<u>Repairing and trial of both cane unloader for off-season 2027.</u>	
CANE UNLOADER 1st	
Sr. No.	Detail of Job
	TROLLEY
1	Dismantling of trolley wheels-4 nos., Pinions & pinion shafts welding, machining, fitting of bearings with all wheels
2	Trolley wheels Dismantling from site pinion shafts, bearings & plumber blocks repairing & fitting of pinion shafts at site.
3	Reduction gearbox dismantling, repairing & fitting at site.
4	Couplings fitting on reduction gearbox & motor alignment of motor.
	BRIDGE
1.	Dismantling of bridge wheels-4 nos., pinions & shafts
	Welding of wheels
	Machining of wheels
	Fitting of bearings & bearing plates with wheels
2	Dismantling of shafts
	Repairing of shafts
3	Fitting of wheels
	Fitting of shafts
4	Coupling fitting of reduction gearbox & motor
5	Alignment of motor
	GRAB
1	Dismantling of grab

2	Welding of grab fingers, grinding, drilling
3	Repairing of all pulleys & fitting with grab
4	Assembly of grab, fitting of wire rope
	Trial of all units
	LOAD & UNLOAD
1.	Dismantling of reduction gearboxes-2 nos. repairing
2.	Taking out of gears
	Fitting of gears
3	Repairing of wire rope drums
4	Fitting of motors & alignment
Note:- Fabrication work of both cane unloader done by contractor/scope of party	

CANE UNLOADER 2nd	
Sr. No.	Detail of Job
	TROLLEY
1	Dismantling of trolley wheels-4 nos., Pinions & pinion shafts welding, machining, fitting of bearings with all wheels
2	Trolley wheels Dismantling from site pinion shafts, bearings & plumber blocks repairing & fitting of pinion shafts at site
3	Reduction gearbox dismantling, repairing & fitting at site
4	Couplings fitting on reduction gearbox & motor alignment of motor.
	BRIDGE
1.	Dismantling of bridge wheels-4 nos., pinions & shafts
	Welding of wheels
	Machining of wheels
	Fitting of bearings & bearing plates with wheels
2	Dismantling of shafts
	Repairing of shafts
3	Fitting of wheels
	Fitting of shafts
4	Coupling fitting of reduction gearbox & motor
5	Alignment of motor
	GRAB
1	Dismantling of grab
2	Welding of grab fingers, grinding, drilling
3	Repairing of all pulleys & fitting with grab
4	Assembly of grab, fitting of wire rope
	Trial of all units
	LOAD & UNLOAD
1.	Dismantling of reduction gearboxes-2 nos. repairing
2.	Taking out of gears
	Fitting of gears
3	Repairing of wire rope drums
4	Fitting of motors & alignment
Note:- Fabrication work of both cane unloader done by contractor/scope of party	

Dismantling and Repairing, fitting and trial of cane leveller and both cane cutters during off season 2027

Sr. no.	Detail of job
1.	Dismantling, repairing and fitting cane leveler and both cane cutters.
Note:- Fabrication work will be done by contractor/scope of party	

<u>Dismantling, Repairing, fitting and trial of both cane carrier for off-season 2027</u>	
Sr. no.	Detail of job
Cane carrier no. 1	
1	Dismantling of cane carrier into pieces of 5 slates
2	Dismantling slates from chain
3	Dismantling slates from parts
4	Repair of chain & fitting with slates
5	Repair of reduction gearbox
6	Repair and fitting of tail shaft & idler shafts
7	Dismantling of head shaft & pinion shaft
8	Repair & fitting of pinion shaft & head shaft
9	Dismantling and repairing of idler shafts
10	Fitting of reduction gear box, motor & alignment
11	Replacement of damage side plates, flat iron, beams columns etc.
12	Trial of cane carrier no. 1
Cane carrier no. 2	
1	Dismantling of cane carrier into pieces of 5 slates
2	Dismantling slates from chain
3	Dismantling slates from parts
4	Repair of chain & fitting with slates
5	Repair of reduction gearbox
6	Repair and fitting of tail shaft & idler shafts
7	Dismantling of head shaft & pinion shaft
8	Repair & fitting of pinion shaft & head shaft
9	Dismantling and repairing of idler shafts
10	Fitting of reduction gear box, motor & alignment
11.	Replacement of damage side plates, flat iron, beams columns etc.
12	Trial of cane carrier no. 1
Note:- Fabrication work of both cane carriers will be done by contractor/scope of party	

Dismantling and Repairing, fitting and trial of fibrizer during off season 2027	
Sr. no.	Detail of job
1.	Dismantling, repairing and unloading of fibrizer and anvil plate with motor etc.
2.	Dismantling, repairing and fitting of fibrizer hammers with accessories and etc.
3.	Complete alignment and trial of fibrizer with motor etc.
4.	Dismantling, repairing, cleaning and fitting of water cooling pipe lines etc.
5.	Complete repairing forced lubrication oil system etc.
Note: - Fabrication work of Fibrizer will be done by contractor/scope of party if any.	

Dismantling and Repairing, fitting and trial of Mill House during off season 2027	
Sr.	Detail of job

no.	
1.	Dismantling, repairing and fitting mill house along with alignment of all rollers, transmission pinion gears etc., all mill house pumps, hydraulic systems, lubricators, Rotary screen, all valves, all pipelines, all reduction gear boxes and driving arrangements, Imbibition tank along with all respect etc.
Note:- Fabrication work will be done by contractor/scope in party	

Complete dismantling, Repairing, Fitting and trial of rack carrier and inter rack carriers during off season 2027	
Sr. no.	Detail of job
1.	Complete repairing and Fitting trough of rack carriers with donally chutes etc.
2.	Replacement of flat iron of rack carrier and inter rack carriers etc.
3.	Repairing and Fitting of tail and head shafts of rack carrier 01 no. and inter rack carrier 06 nos. (Total shafts 08 nos.)
4.	Complete repairing, Fitting and alignment of reduction gear boxes with motor etc.
5.	Fitting of chains with racks of rack carrier and inter rack carriers etc.
Note:- Fabrication work of above said job will be done by contractor/scope in party	

Dismantling and Repairing, fitting and trial of both boilers during off season 2027	
Sr. no.	Detail of job
1.	Complete repair and maintenance work of both boilers with its all accessories i.e. I.D. fans, F.D. Fans, ducting's, S.A. fans, P.A. fan, bagasse, feeders, Reduction Gear Boxes, R.O. Plant, All feed pumps, all high pressure valves, economizer, air heater, super heater, wet scrubber plant system complete with pumps chimney and cleaning work, bagasse elevator chain, PRDS station with all valves and lines etc.(Only Major tube replacement if any will be in Mill's scope).
Note:- Fabrication work will be done by contractor/scope in party	

S.No.	Particulars
1.	Bagasse Elevator Carrier dismantling, repair, fitting and alignment with trials.
i	Drive End
ii	Non DriveEnd
iii	Chain
iv	Rakes
v	Runner &Turf
vi	Gear Box
vii	Coupling
viii	Drive Chain
S.No.	Particulars
1.	Main Bagasse Carrier dismantling, repair, fitting and alignment with trials.
i	Drive End
ii	Non DriveEnd
iii	Chain
iv	Rakes
v	Runner &Turf

vi	Gear Box
vii	Coupling
viii	Drive Chain
2	Return Bagasse Carrier dismantling, repair, fitting and alignment with trials.
i	Drive End
ii	Non DriveEnd
iii	Belt Conveyor
iv	Rakes
v	Runner &Turf
vi	Gear Box
vii	Coupling
viii	Drive Chain
Note:- Fabrication work will be done by contractor/scope in party	

Sr.No.	Particulars
1.	Centrifugal Station and drier house
i	All batch type machines along with its accessories.
ii	All continuous type machines along with its accessories.
iii	All hoppers and grader along with its accessories.
iv	All elevators along with its accessories.
v	All Sugar bins along with its accessories.
vi	All pumps, redicons, mixtures, pug mills, valves along with its accessories.
vii	All transient heaters, super heater water wash systems along with its accessories.
viii	Complete drier house along with grader.
ix	Final Molasses weighing scale along with all pumps, lines up to molasses tank.
x	Vertical Crystallizer along with all driving and non-driving units, complete with respect.
xi	Lime Preparation, Sulphur feeding, lime and Sulphur shifting from godown to station, all chemical shifting from store to working place and empty drums send to store.

Sr. No.	Pan Station
01.	Complete overhauling, repairing and maintenance of pan station (all pans from 1 to 6) along with their all type valves, driving units, condensers, all pneumatic discharge valves, all pneumatic cut over valves and with all types' trials i.e. water trails, hydraulic, vacuum trials etc. during off-Season and Crushing Season 2027-28.
Note:-	Fabrication work will be done by contractor/scope in party

Sr. No.	Crystallizer Station
01.	Complete overhauling, repairing and maintenance of Crystallizer station (all Crystallizer from 1 to 12, all vacuum crystallizer) along with their all type valves, driving units with all types' trials i.e. water trails, hydraulic trails of coils etc. during off-Season and Crushing Season 2027-28.
Note:-	Fabrication work will be done by contractor/scope in party

Sr. No.	Evaporators Station & Both FFE.
01.	Complete overhauling, repairing and maintenance of Evaporators Station & Both FFE station (all Evaporators Station & Both FFE) along with their all type valves, driving units with all types' trials i.e. water trails, hydraulic trails, Vacuum trails etc. during off-Season and Crushing Season 2027-28.
Note:-	Fabrication work will be done by contractor/scope in party

AMC of Various equipments for 2027-28.

Sr. No.	Description	Qty.
1.	AMC of sugar bag stitching machine (02 nos slate conveyor chain and 05 nos. stitching heads) for crushing season 2027-28. Mill have 05 nos. sugar bags stitching machine heads and two nos. complete conveyor for stitching of sugar bags of the contractor shall do the said job through any experienced party.	05
2.	AMC of two No. auto sugar weighing machine for crushing season 2027-28. (Make Power Built machine) Mill have two nos. Auto sugar weighting machine of make M/s power built, Delhi= 02 nos. Contractor shall do the said job either through original manufacturer or through Expert person for trouble free running of machines. Spares required shall be arranged by the contractor. Auto weighing machine cleaned & checked in each shift for proper working.	02 nos
3.	Annual Maintenance contract for Water Emission(ETP) and air Emission(Stack) online data transfer:- Annual Maintenance contract for ETP online data transfer to the server of CPCB/HSPCB for the period from one month before the start for crushing season 2027-28 and one month after the closure of crushing season 2027-28. Stack Emission online data transfer to the server of CPCB/HSPCB for the period from the before the start for crushing season 2027-28 upto closure of the crushing 2027-28. Mill have installed online data transfer for system of treated effluent water through M/s NAVCO pvt. Ltd., the said supplier should have own server by which data of treated effluent water of sugar Mill Sonipat. Transfer to the Server CPCB/HSPCB hence contractor shall do said work through the original manufacture.	--
4.	Annual Maintenance contract of mini cooling tower for season 2027-28	1 nos
5.	AMC of Servicing and overhauling of sugar stacker.	3 nos
6.	AMC of Servicing and overhauling of the one no. of Screw air compressor along with air drier and 01 no. of vertical conventional air compressor	

3. The Meham Coop. Sugar Mills Ltd, Meham

SCOPE OF WORK FOR O&M OF MILL HOUSE AND MANPOWER CONTRACT.

Sr. No	DESCRIPTION
I.	Repairing, overhauling, assembling of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes etc. without turbines) 2500 TCD for the off season 2026.
II.	Operation (within given performance parameters including all the required manpower) of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes, Fibrizer and mill turbines etc) of the Mill for crushing season 2026-27.
III.	Outsourcing of various skilled jobs on contract basis/ service in Engg. & Mfg. Deptt for the crushing season 2026-27
IV.	Repairing, overhauling, assembling of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes etc. without turbines) 2500 TCD for the off season 2027.
V.	Operation (within given performance parameters including all the required manpower) of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes, Fibrizer and mill turbines etc) of the Mill for crushing season 2027-28.
VI.	Outsourcing of various skilled jobs on contract basis/ service in Engg. & Mfg. Deptt for crushing season 2027-28

Sr. No	DESCRIPTION
I.	Repairing, overhauling, assembling of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes etc without turbines) 2500 TCD for the off season 2026.

A. Scope of Work: -

The entire scope of work will involve all overhauling, repair & maintenance of mill house during off season and operation of the Mill house during the season. The scope of work indicating responsibility of the party has been indicated in **Annexure-X**.

Annexure-X.

1. Overhauling, Repair & maintenance of cane unloaders.
2. Overhauling, Repair & maintenance of main cane carrier.
3. Overhauling, repair & maintenance of main rake, inter rake carrier 1, 2 & 3.
4. Overhauling, repair & maintenance of Kicker, leveller&Fibrizer
5. Overhauling, repair & maintenance of mill 1, 2, 3 & 4 along with re-alignment of mills & transmission gears if required.
6. Overhauling, repair & maintenance of DSM screen, pumps, valves & bagasscillo Blowers.
7. Overhauling, repair & maintenance of equalizer.
8. Repair/ fabrication & erection of all the trough from cane carrier to R.B.C.

9. Repair/fabrication & erection, cleaning and necessary painting of machinery supporting columns from cane unloaders to R.B.C.
10. Repair/fabrication & erection of all the gear guards, DSM conveyors , juice boxes, pipe lines, juice trays, maceration trays etc.
11. Repair of damaged teeth & sides of mill rollers to be reused.
12. Repair/overhauling /fabrication of the spare parts which may be required during the crushing season. e.g. Square couplings, crown pinions, sprockets, bearings, housings etc.
13. Dewatering, removal of mud, earth, oil, bagasse etc. from foundation trenches, below Fibrizor& cane carrier etc.
14. Dismantling & fitting of motors.
15. Lubrication system, mill house crane, Hydraulic system etc. In case lubrication related work order is placed separately by the mills, proportional deduction for labour portion will be made out of lumpsum rates quoted for item at sr no. II before making payment.
16. Overhauling, repair & Operation of bagasse elevator, main bagasse carrier,
17. Return bagasse carrier, bagasse blower, Transmission gear with bearing housing, FMG Gear boxes etc. complete Mill house.
18. Scrapping, cleaning and painting of complete Mill House columns, purlins and Mill House crane.
19. The items which are not mentioned in work order will be in the scope of party excluding turbines overhauling during off season.
20. Fabrication work regarding any major/ minor works of Mill House, if found to be required during the repair, maintenance and operation of Mills, will be in party's scope.

B. The overall position is highlighted below; -

1. **Overhauling, Repair & Maintenance:**
For smooth operation of the Mill house, off season overhauling, repair and maintenance of all sections/stations from cane carrier to Return Bagasse Carrier involving all machinery & equipment's including all the mechanical work except electrical and instrumentation.
2. The party will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within one week of receiving final work order.
3. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
4. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
5. Any other work which is not specified in **Annexure X**, but required for smooth functioning of the mill, will also be done by the party.
6. If the party fails to deliver the work allotted as per scope and the terms and Conditions of the tender, MCSM shall get the work executed from any other agency at the risk and cost of the party.
7. Season will be considered 7 days before commencing of cane crushing and 7 days after end of crushing subject to complete the dismantling & washing work. Any Lapse shall invite appropriate penalty.
8. Work progress will be reviewed on weekly basis strictly.
9. Cleaning, scrapping and painting of machinery parts will be done by the party.
10. If any foundation bolt of any head stock/ transmission gears beds required replacement, will be done by party.
11. All fabricated parts required or every type of fabrication work at mill house will be in the party scope no any fabrication contractor will be engaged by mills.
12. It will be the responsibility of the contractor to keep the mill house neat & clean.
13. Job like repairing/ build-up of teeth of roller, cutting of chevron groove and all other jobs related to Mill will be in party scope.

C. Accommodation

1. Rent free accommodation in Mills Rest House will be provided to the Supervisory Staff (2 persons only) as per availability. Dormitories shall be provided to other technical staff other worker free of cost.
2. The electricity and water will be provided to you on actual post by mill, cost for use of AC & Electrical heater will be paid by party. Parties staff will not misuse the electricity and water. Action shall be taken for misused of electricity, water and damages if any, to the mill property.
3. Any other arrangement for food etc. will be made by the party at his own cost.

D. Arrangement of Materials and consumables

1. A list of all material and consumables required will be provided by the Party to the Managing Director of MCSM within one week after signing the agreement/ LOI/ Work order.
2. The brand/type & specifications of the material will be recommended by the Party which will be finally decided by Managing Director of MCSM.
3. MCSM will procure the material and consumables at the earliest after receiving the indent/requirement.
4. All the consumable such as HSD, K. Oil. Lubricants, Welding Electrodes, wire bunch, emery paper, emery tape, emery paste, nut & bolts etc. all spare parts required for repair & maintenance will be provided by Sugar Mill. All the tools & tackles will be arranged by the party e.g. welding sets, grinders, chain blocks, gas cutters, gas regulators etc. However, the contractor can use the available welding sets, chain blocks subject to the repair of such tools at his cost.

Misc.: -

1. You shall ensure that annual expenses on account of consumption of store & spare items should be as per industry norms and not more than the average cost of last three years of our own sugar mill.
2. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.
3. Cane survey report will be handed over in due course of time.
4. Total cane to be crushed will be approx. 24 Lakhs $\pm$ 3 lakhs qtls.
5. Season may go on till month of May or till the complete crushing of cane in the assigned area.
6. Cane allotted from other sugar mills as per MD Sugarfed or cane commissioner will also be considered as our own cane (if any).
7. All orders and directions as and when given by Haryana Govt., MD Sugar Federation, RCS, DC-Chairman Rohtak, BOD of Meham mill shall be binding and non-negotiable.
8. All the terms discussed with you during negotiation will be accepted by you which will be mentioned in the detailed work order.
9. Party is mandatorily required to maintain attendance, dedicated record of employees/ workers deputed for the work order. Record should include – Name of employee, ID details, PF, ESI, Overtime, duration, etc. and any other relevant details which may be asked from time to time by Mills.

II.	Operation (within given performance parameters including all the required manpower) of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes, Fibrizer and mill turbines etc) of the Mill for the crushing season 2026-27.
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A. Operation of Mill during crushing season:

1. Any specific job which is not mentioned in work order will be in the scope of party required for operation of Mill House including Cane Carrier Labour and Mill Bed Coolie
2. All Electrical and instrumentation work will be in the scope of MCSM, Meham (operation & maintenance).

3. From cane unloader to RBC all the equipment's operation during season will come in scope of party.
4. Operation of mill and Fibrizer turbines are in party scope. Cleaning of oil cooler, turbine and general maintenance work of turbine will be in party scope during crushing season.

B. Manpower:

Mill House Employees per Shift

Sr.No.	Description	No. of employees (per shift)
1	Shift Engineer	1
2	Cane unloader operator	2
3	Cane leveler Attendant	1
4	Cane carrier Attendant	1
5	Pump Attendant	1
6	Fitter	2
7	Fitter Helper	2
8	Khalasi	3
9	Welder	1
10	Oil man	1
11	RBC/BC Attendant	2
12	Mill bed coolie	4
13	Cane carrier chain & Mill Coolie	2
	Total	23

General Shift Employees

1	Chief Engineer	1
2	Mill House Foreman	1

Employees for Turbines per Shift

1	Fibrizer Turbine Operator	1
2	Mill Turbine Operator	2

1. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt.
2. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement of the mills.
3. Bed coolies, chain collies and other man power in each shift required for sanitation and cleaning will be provided by party separately. Manpower which are to be required for smooth operation of the plant but not mentioned in this work order, same will be provided by party.
4. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.
5. The firm will be responsible for payment of EPF/ ESI/ any other such liability of their employees and MCSM will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.
6. Group insurance of the employees of the firm will be the responsibility of the Firm and MCSM will not be

- responsible for any claim which may be made under the workmen compensation Act and other Acts.
7. In the event of any accident/causality etc. of the employees of the firm and MCSM will not be responsible and Firm will ensure all safety measures for its employees.
 8. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
 9. The firm/party shall withdraw those Employees, who are not performing the work up to the satisfaction of the MCSM or for their misconduct and such employees will be replaced (as may be suitable) to MCSM. However, the firm will not transfer the duty of its employees without the consent of the MCSM.
 10. Season will be considered 7 days before commencing of cane crushing and 7 days after end of crushing subject to complete the dismantling & washing work. Any Lapse shall invite appropriate penalty.
 11. Interview of Tech. Staff will be taken by MD and concerned HOD.
 12. The attendance of workers will be verified by the mill's shift Engineer in each shift, if workers remain absent the contractor will make alternate arrangement, if the contractor fails to make alternate arrangement in place of absentees, the deductions will be made from the bill accordingly as per HKRNL/Reference Rates applicable.
 13. Each shift shall be of 8 hours each. Contractor is mandatory required to depute adequate staff to satisfy Mill requirements as per work order strictly.
 14. Party is mandatorily required to maintain attendance, dedicated record of employees/ Workers deputed for the work order. Record should include – Name of employee, ID details, PF, ESI, Overtime, duration, etc. and any other relevant details which may be asked from time to time by Mills.
 15. If, due to any reasons; Mills has to do some part of this work order;, then Mill will recover proportional payment of that work out of total order value.

III	Outsourcing of various skilled jobs on contract basis/ service in Engg. & Mfg. Deptt for the crushing season 2026-27
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Description of work –

Sr. No.	Job Description.	No. of Jobs. (No. of Shifts.)
A.	Outsourced jobs in Engineering Deptt.	
1	Job work of Mechanical Engineer (Supervision work) in complete Boiler & Boiling House in one shift.	01 No.
2	Job work of Water Man at Boilers in four Shifts.	04 Nos.
3	Job work of Fire Man at Boilers in one shift.	01 No.
4	Job work of Welder at Boilers & Boiling house in two Shifts	02 Nos.
5	Job work of Electrician in three Shifts.	03 Nos.
6	Job work of Motor Winder in one Shift.	01 Nos.
7	Job work of Wire Man in two Shifts.	02 Nos.
8	Job work of Switch Board Attendant in one shift.	01 Nos.
B	Outsourced jobs in Manufacturing Deptt.	
1	Job work of Mfg. Chemist for shift supervision of complete house for manufacturing process in two shifts.	02 Nos.
2	Job work of Lab Chemist for analysis of laboratory samples and record-keeping work in two shifts.	02 Nos.
3	Job work of Juice Sulphitor Attendant in one shift.	01 No.
4	Job work of Lime Coolie in two shifts.	02 Nos.
5	Job work of Vacuum filter Mate in one shift.	01 No.
6	Job work of Door/ clarifier Attendant in one shift.	01 No.
7	Job work of Quad Mate in three shifts. (operation)	03 Nos.

8	Job work of Pan Incharge (supervision of complete Pan station and boiling process) in two shifts.	02 Nos.
9	Job work of Pan Man (Pan station work and boiling process) in two shifts.	02 Nos.
10	Job work of Assistant Pan Man (Pan station work and boiling process) in all shifts.	04 Nos.
11	Job work of C/F Mate (operating Batch Type Centrifugal Machines) in all shift.	04 Nos.
12	Job work of Drier House Clerk (Supervision and record keeping work of sugar bags in three shifts	03 Nos.
13	Job work of Sulphur furnace Attendant in two shifts	02 Nos.
14	Job work of pH Recorder to analyze pH, temp, sugar etc. of water, juice, syrup at Boiler & Boiling house in one shift.	01 No.
15	Job work of Unskilled manpower (Juice & water weightment station, Evaporator, Vacuum filter, Pan, Crystallizer, Hopper, Sugar melter etc.)	20 Nos.

Terms & Conditions -

A. *Job Description during the crushing season -*

For smooth operation of following stations - Evaporator Station (including bypass operation according to schedule, for tube cleaning of bodies as per direction of Chief Chemist), Oliver Station, A-Massecuite Pan Boiling including Operation of Injection Pumps etc., Batch Type Centrifugal Machines WIL 1250, Sugar Hoppers, Sugar Graders, Sugar Elevators, Laboratory, Boiler, Workshop, Electrical and Instrumentation. The jobs to be carried through man power having qualification/experience as per Haryana Sugar Federation, Panchkula or prescribed otherwise.

B. *Specific requirements: -*

- Contractor staff will perform their duty as per the shift chart of Mills.
- No. of persons can be increased/ decreased or as per the actual requirement of the mills.
- No lodging & boarding facility will be given to staff.
- Besides these jobs, if mill requires any other similar job to manage some incidental contingent situation, the same will have to arranged by the party on rates as mutually decided by Contractor and Managing Director.
- If any other job work, not mentioned in work order, is required; then same will be arranged by party & the rate of equivalent job will be applicable.
- Party will depute the staff on its own risk & will comply all the labour laws.
- Party will have to mandatorily submit the qualification & experience certificates of their deputed staff to the management.***
- Party staff will not leave the station until the reliever joins the duty. If any worker leaves the duty/ station unattended; then contractor will have to bear full responsibility of loss/ damages to mills whatsoever. In addition, contractor is duty bound to ensure adequate deployment of workers in each shift.
- Employee whose work/ conduct is found to be doubtful will have to be replaced as and when a written communication is received from Chief Chemist or Chief Engineer.
- If any worker of party is found to be absent from his duty place in surprise checking by mills management, then they will be marked absent and appropriate penalty will be imposed upon contractor.
- All type of alcohols or drugs are prohibited for party labour according to the factory Act.
- The man power supplied by the party must be mentally, physically and experience wise fit for the task given by the mills.

13. In case of absence of any worker, the party will have to provide the man power of same skill at that station so that work does not suffer. The arrangement of weekly rest will be in the scope of party – No extra wages will be given to the party for the weekly rest as requirements by the Mills have been raised shift wise.
14. If any worker/supervisor avail any type of leave, the party should provide the man power of same skill at that station so that work does not suffer.
15. Chemical dosing is to be done as per direction of mills Chief Chemist and chemicals are to be collected from store and have to be brought/ shifted up to A side Pan & other station by deputed contractor's worker.
16. Grader brushing should be done hourly and as per direction of shift supervisor strictly.
17. Rori Sugar, Moist Sugar, Sugar Dust is to be collected in bags and to be remelted in each shift.
18. At the starting of shift, all three hoppers are to be cleaned, sugar grader is to be brushed & the magnet should be cleaned thoroughly else penalty may be imposed against contractor.
19. In case of low exhaust pressure during the shift, the evaporator station workers will pursue for the same.
20. Attendance of deputed workers will be recorded either in manual/ biometric mode by Time Office of the Mills.

No	Sr.	DESCRIPTION
IV		Repairing, overhauling, assembling of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes etc without turbines) 2500 TCD for the off season 2027.

A. Scope of Work: -

The entire scope of work will involve all overhauling, repair & maintenance of mill house during off season and operation of the Mill house during the season. The scope of work indicating responsibility of the party has been indicated in **Annexure-X**.

Annexure-X.

1. Overhauling, Repair & maintenance of cane unloaders.
2. Overhauling, Repair & maintenance of main cane carrier.
3. Overhauling, repair & maintenance of main rake, inter rake carrier 1, 2 & 3.
4. Overhauling, repair & maintenance of Kicker, leveller&Fibrizer
5. Overhauling, repair & maintenance of mill 1, 2, 3 & 4 along with re-alignment of mills & transmission gears if required.
6. Overhauling, repair & maintenance of DSM screen, pumps, valves & bagasscillo Blowers.
7. Overhauling, repair & maintenance of equalizer.
8. Repair/ fabrication & erection of all the trough from cane carrier to R.B.C.
9. Repair/fabrication & erection, cleaning and necessary painting of machinery supporting columns from cane unloaders to R.B.C.
10. Repair/fabrication & erection of all the gear guards, DSM conveyors , juice boxes, pipe lines, juice trays, maceration trays etc.
11. Repair of damaged teeth & sides of mill rollers to be reused.
12. Repair/overhauling /fabrication of the spare parts which may be required during the crushing season. e.g. Square couplings, crown pinions, sprockets, bearings, housings etc.
13. Dewatering, removal of mud, earth, oil, bagasse etc. from foundation trenches, below Fibrizer& cane carrier etc.
14. Dismantling & fitting of motors.
15. Lubrication system, mill house crane, Hydraulic system etc. In case lubrication related work order is placed separately by the mills, proportional deduction for labour portion will be made out of lumpsum rates quoted for item at sr no. II before making payment.
16. Overhauling, repair & Operation of bagasse elevator, main bagasse carrier,

17. Return bagasse carrier, bagasse blower, Transmission gear with bearing housing, FMG Gear boxes etc. complete Mill house.
18. Scrapping, cleaning and painting of complete Mill House columns, purlins and Mill House crane.
19. The items which are not mentioned in work order will be in the scope of party excluding turbines overhauling during off season.
20. Fabrication work regarding any major/ minor works of Mill House, if found to be required during the repair, maintenance and operation of Mills, will be in party's scope.

B. The overall position is highlighted below; -

1. Overhauling, Repair & Maintenance:
For smooth operation of the Mill house, off season overhauling, repair and maintenance of all sections/stations from cane carrier to Return Bagasse Carrier involving all machinery & equipment's including all the mechanical work except electrical and instrumentation.
2. The party will prepare a report of assessment of work and will supply a copy of report along with consumables/spare parts /materials within one week of receiving final work order.
3. All material required by the party will be arranged by the mill at the earliest after receiving indent/requirement.
4. The Party will also supply a list of man power to be engaged to complete the work for completing the repair works, indicating their qualification and experience.
5. Any other work which is not specified in **Annexure X**, but required for smooth functioning of the mill, will also be done by the party.
6. If the party fails to deliver the work allotted as per scope and the terms and Conditions of the tender, MCSM shall get the work executed from any other agency at the risk and cost of the party.
7. Season will be considered 7 days before commencing of cane crushing and 7 days after end of crushing subject to complete the dismantling & washing work. Any Lapse shall invite appropriate penalty.
8. Work progress will be reviewed on weekly basis strictly.
9. Cleaning, scrapping and painting of machinery parts will be done by the party.
10. If any foundation bolt of any head stock/ transmission gears beds required replacement, will be done by party.
11. All fabricated parts required or every type of fabrication work at mill house will be in the party scope no any fabrication contractor will be engaged by mills.
12. It will be the responsibility of the contractor to keep the mill house neat & clean.
13. Job like repairing/ build-up of teeth of roller, cutting of chevron groove and all other jobs related to Mill will be in party scope.

C. Accommodation

1. Rent-free accommodation in Mills Rest House will be provided to the supervisory staff (2 persons only) as per availability. Dormitories shall be provided to other technical staff/ workers free of cost.
2. The electricity and water will be provided to you on actual cost by MCSM, cost for use of AC & electric heater will be paid by party. Party's staff will not misuse the electricity and water. Action shall be taken for misuse of electricity, water and damages if any, to the mill property.
3. All other arrangements for food etc will be made by the Party at his own cost.

Misc.: -

1. You shall ensure that annual expenses on account of consumption of store & spare items should be as per industry norms and not more than the average cost of last three years of our own sugar mill.
2. Party will submit the requirement of store & spare items well in advance before start the crushing season and before start of repair & maintenance with a copy to Haryana Sugar Mills Federation Corporate Office, Panchkula.
3. Cane survey report will be handed over in due course of time.
4. Total cane to be crushed will be approx. 26 Lakhs $\pm$ 3 lakhs qtls.
5. Season may go on till month of May or till the complete crushing of cane in the assigned area.
6. Cane allotted from other sugar mills as per MD Sugarfed or cane commissioner will also be

considered as our own cane (if any).

7. All orders and directions as and when given by Haryana Govt., MD Sugar Federation, RCS, DC-Chairman Rohtak, BOD of Meham mill shall be binding and non-negotiable.
8. All the terms discussed with you during negotiation will be accepted by you which will be mentioned in the detailed work order.
9. Party is mandatorily required to maintain attendance, dedicated record of employees/ workers deputed for the work order. Record should include – Name of employee, ID details, PF, ESI, Overtime, duration, etc. and any other relevant details which may be asked from time to time by Mills.

V	Operation (within given performance parameters including all the required manpower) of complete mill house (from cane unloader to RBC including transmission gears, FMG gear boxes, Fibrizer and mill turbines etc) of the Mill during the season 2027-28.
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A. Operation of Mill during crushing season:

1. Any specific job which is not mentioned in work order will be in the scope of party required for operation of Mill House including Cane Carrier Labour and Mill Bed Coolie
2. All Electrical and instrumentation work will be in the scope of MCSM, Meham (operation & maintenance).
3. From cane unloader to RBC all the equipment's operation during season will come in scope of party.
4. Operation of mill and Fibrizer turbines are in party scope. Cleaning of oil cooler, turbine and general maintenance work of turbine will be in party scope during crushing season.

B. Manpower:

Mill House Employees per Shift

Sr.No.	Description	No. of employees (per shift)
1	Shift Engineer	1
2	Cane unloader operator	2
3	Cane leveler Attendant	1
4	Cane carrier Attendant	1
5	Pump Attendant	1
6	Fitter	2
7	Fitter Helper	2
8	Khalasi	3
9	Welder	1
10	Oil man	1
11	RBC/BC Attendant	2
12	Mill bed coolie	4
13	Cane carrier chain & Mill Coolie	2
	Total	23

General Shift Employees

1	Chief Engineer	1
2	Mill House Foreman	1

Employees for Turbines per Shift

1	Fibrizer Turbine Operator	1
2	Mill Turbine Operator	2

1. The firm should have well qualified experts and staff as per norms of Sugar wage board or fixed by Registrar Cooperative Societies, Haryana/Haryana Govt.
2. The firm should attach a list of key technical experts indicating their qualification/experience and core strength etc. and give an undertaking in writing to deploy Minimum man power required to perform the work and as per requirement of the mills.
3. Bed coolies, chain collies and other man power in each shift required for sanitation and cleaning will be provided by party separately. Manpower which are to be required for smooth operation of the plant but not mentioned in this work order, same will be provided by party.
4. All persons engaged by the firm directly or indirectly shall be employees of the firm and it is obligatory on the part of the firm to cover all their employees under workman compensation Act and other Acts.
5. The firm will be responsible for payment of EPF/ ESI/ any other such liability of their employees and MCSM will not be responsible for any monetary claim or payment to the firm employees or statutory authorities under the employee's provident fund, Family pension Fund or any other liabilities.
6. Group insurance of the employees of the firm will be the responsibility of the Firm and MCSM will not be responsible for any claim which may be made under the workmen compensation Act and other Acts.
7. In the event of any accident/causality etc. of the employees of the firm and MCSM will not be responsible and Firm will ensure all safety measures for its employees.
8. The firm shall ensure that the age of their employees will not be less than 18 years in any case.
9. The firm/party shall withdraw those Employees, who are not performing the work up to the satisfaction of the MCSM or for their misconduct and such employees will be replaced (as may be suitable) to MCSM. However, the firm will not transfer the duty of its employees without the consent of the MCSM.
10. Season will be considered 5 days before commencing of cane crushing and 5 days after end of crushing subject to complete the dismantling & washing work. Any Lapse shall invite appropriate penalty.
11. Interview of Tech. Staff will be taken by MD and concerned HOD.
12. The attendance of workers will be verified by the mill's shift Engineer in each shift, if workers remain absent the contractor will make alternate arrangement, if the contractor fails to make alternate arrangement in place of absentees, the deductions will be made from the bill accordingly as per HKRNL/Reference Rates applicable.
13. Each shift shall be of 8 hours each. Contractor is mandatory required to depute adequate staff to satisfy Mill requirements as per work order strictly.
14. Party is mandatorily required to maintain attendance, dedicated record of employees/ Workers deputed for the work order. Record should include – Name of employee, ID details, PF, ESI, Overtime, duration, etc. and any other relevant details which may be asked from time to time by Mills.
15. If, due to any reasons; Mills has to do some part of this work order;, then Mill will recover proportional payment of that work out of total order value.

C. Accommodation

1. Rent-free accommodation in Mills Rest House will be provided to the supervisory staff (2 persons only) as per availability. Dormitories shall be provided to other technical staff/ workers free of cost.
2. The electricity and water will be provided to you on actual cost by MCSM, cost for use of AC & electric heater will be paid by the party. Party's staff will not misuse the electricity and water. Action shall be taken for misuse of electricity, water and damages if any, to the mill property.
3. All other arrangements for food etc will be made by the Party at his own cost.

VI	Outsourcing of various skilled jobs on contract basis/ service in Engg. & Mfg. Deptt for the crushing season 2027-28
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Description of work –

Sr. No.	Job Description.	No. of Jobs. (No. of Shifts.)
A.	Outsourced jobs in Engineering Deptt.	
1	Job work of Mechanical Engineer (Supervision work) in complete Boiler & Boiling House in one shift.	01 No.
2	Job work of Water Man at Boilers in four Shifts.	04 Nos.
3	Job work of Fire Man at Boilers in one shift.	01 No.
4	Job work of Welder at Boilers & Boiling house in two Shifts	03 Nos.
5	Job work of Electrician in three Shifts.	03 Nos.
6	Job work of Motor Winder in one Shift.	01 Nos.
7	Job work of Wire Man in two Shifts.	03 Nos.
8	Job work of Switch Board Attendant in one shift.	02 Nos.
9	Job work of Oil Man in one shift	01 No.
B	Outsourced jobs in Manufacturing Deptt.	
1	Job work of Mfg. Chemist for shift supervision of complete house for manufacturing process in two shifts.	02 Nos.
2	Job work of Lab Chemist for analysis of laboratory samples and record-keeping work in two shifts.	02 Nos.
3	Job work of Juice Sulphitor Attendant in one shift.	02 No.
4	Job work of Lime Coolie in two shifts.	02 Nos.
5	Job work of Vacuum filter Mate in one shift.	01 No.
6	Job work of Door/ clarifier Attendant in one shift.	03 No.
7	Job work of Quad Mate in three shifts. (operation)	03 Nos.
8	Job work of Pan Incharge (supervision of complete Pan station and boiling process) in two shifts.	02 Nos.
9	Job work of Pan Man (Pan station work and boiling process) in two shifts.	02 Nos.
10	Job work of Assistant Pan Man (Pan station work and boiling process) in all shifts.	05 Nos.
11	Job work of C/F Mate (operating Batch Type Centrifugal Machines) in all shift.	05 Nos.
12	Job work of Drier House Clerk (Supervision and record keeping work of sugar bags in three shifts	03 Nos.
13	Job work of Sulphur furnace Attendant in two shifts	02 Nos.
14	Job work of pH Recorder to analyze pH, temp, sugar	02 No.

	etc. of water, juice, syrup at Boiler & Boiling house in one shift.	
15	Job work of Unskilled manpower (Juice & water weightment station, Evaporator, Vacuum filter, Pan, Crystallizer, Hopper, Sugar melter etc.)	25 Nos.

Terms & Conditions -

A. Job Description during the crushing season -

For smooth operation of following stations - Evaporator Station (including bypass operation according to schedule, for tube cleaning of bodies as per direction of Chief Chemist), Oliver Station, A-Massecuite Pan Boiling including Operation of Injection Pumps etc., Batch Type Centrifugal Machines WIL 1250, Sugar Hoppers, Sugar Graders, Sugar Elevators, Laboratory, Boiler, Workshop, Electrical and Instrumentation. The jobs to be carried through man power having qualification /experience as per Haryana Sugar Federation, Panchkula or prescribed otherwise.

B. Specific requirements: -

- Contractor staff will perform their duty as per the shift chart of Mills.
- No. of persons can be increased/ decreased or as per the actual requirement of the mills.
- No lodging & boarding facility will be given to staff.
- Besides these jobs, if mill requires any other similar job to manage some incidental contingent situation, the same will have to arranged by the party on rates as mutually decided by Contractor and Managing Director.
- If any other job work, not mentioned in work order, is required; then same will be arranged by party & the rate of equivalent job will be applicable.
- Party will depute the staff on its own risk & will comply all the labour laws.
- Party will have to mandatorily submit the qualification & experience certificates of their deputed staff to the management.**
- Party staff will not leave the station until the reliever joins the duty. If any worker leaves the duty/ station unattended; then contractor will have to bear full responsibility of loss/ damages to mills whatsoever. In addition, contractor is duty bound to ensure adequate deployment of workers in each shift.
- Employee whose work/ conduct is found to be doubtful will have to be replaced as and when a written communication is received from Chief Chemist or Chief Engineer.
- If any worker of party is found to be absent from his duty place in surprise checking by mills management, then they will be marked absent and appropriate penalty will be imposed upon contractor.
- All type of alcohols or drugs are prohibited for party labour according to the factory Act.
- The man power supplied by the party must be mentally, physically and experience wise fit for the task given by the mills.
- In case of absence of any worker, the party will have to provide the man power of same skill at that station so that work does not suffer. The arrangement of weekly rest will be in the scope of party – No extra wages will be given to the party for the weekly rest as requirements by the Mills have been raised shift wise.
- If any worker/supervisor avail any type of leave, the party should provide the man power of same skill at that station so that work does not suffer.
- Chemical dosing is to be done as per direction of mills Chief Chemist and chemicals are to be collected from store and have to be brought/ shifted up to A side Pan & other station by deputed contractor's worker.
- Grader brushing should be done hourly and as per direction of shift supervisor strictly.
- Rori Sugar, Moist Sugar, Sugar Dust is to be collected in bags and to be remelted in each shift.
- At the starting of shift, all three hoppers are to be cleaned, sugar grader is to be brushed & the magnet should be cleaned thoroughly else penalty may be imposed against contractor.
- In case of low exhaust pressure during the shift, the evaporator station workers will pursue for the same.
- Attendance of deputed workers will be recorded either in manual/ biometric mode by Time Office of the Mills.