

TENDER DOCUMENT

**FOR
CONDENSATE POLISHING UNIT (CPU)
BASED ON CONVENTIONAL
TECHNOLOGY
FOR TREATING SPENT WASH
EVAPORATION CONDENSATE AND
SPENTLEES FROM DISTILLERY PLANT
(App. volume 550 M³/DAY)**

**OF
M/S. MULA SAHAKARI SAKHAR
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SECTION I: GENERAL

- 1. TENDER NOTICE**
- 2. SCOPE OF SUPPLY**
- 3. TERMS AND CONDITIONS**
- 4. STATEMENT OF CREDENTIALS**
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- 6. CHECK LIST**

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1. TENDER NOTICE

Sealed tenders in prescribed Tender Document forms are invited from the reputed manufacturers who are on approved list of NFCSF and who have successfully installed & commissioned minimum **two** plants of condensate polishing unit based on Conventional Technology in India for the purpose of the following turnkey job.

- i) Design, manufacture, procure, supply, erection & commissioning of
 - a) Condensate polishing unit (CPU) for treating the evaporation condensate of raw spent wash evaporation plant and spentlees from distillery plant.
- ii) Civil and structural work for condensate polishing unit is in supplier scope.
- iii) Blank Tender Documents are available at Sugar mill office during working days except holidays from ----/-----/2020 up to ----/-----/2020 at the cost of **Rs. 10,000/- plus GST@18%**.
- v) Earnest money deposit of **Rs. 2.50 Lakh** is payable by demand draft / Bank Guarantee. Demand Draft / Bank Guarantee of Nationalized Bank should be drawn in favour of **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar** and to be submitted in separate envelope.
- vi) Tender to be submitted in three separate envelopes.

Envelope No. 1 should contain Technical Bid along-with General terms, Declaration & Agreement

Envelope No. 2 should contain Price Bid with Declaration &

Envelope No. 3 for EMD

Individually sealed Tender Envelope should be superscripted in bold letters (Tender for Condensate Polishing Unit) as "**Technical Bid**", "**Price Bid**" & "**EMD**" respectively. The company name with complete address, mail, telephone / fax nos., email etc. should be written on it & it should reach purchaser's office on or before ----/----/2020 at 5.00 pm.

- vii) Blank tender will be issued only to those who have already installed and successfully commissioned at **least two numbers** of Condensate polishing

units (CPU) based on Conventional Technology in India and on submission of certificates of evidence indicating performance of plant.

- viii) Tenders with any deviation in technical specifications or incomplete tenders and tenders without or insufficient EMD & references will be rejected.
- ix) Purchaser will not be responsible for the late receipt of tender after due date & time of closing on account of any reason of postal /courier or man reach delay.
- x) The tenderer will have to submit the sealed tender as per the tender document only signing each & every page of tender document with company rubber Stamp & duly filled in wherever applicable.
- xi) The detailed specification of the distillery plant and molasses storage tank is given in the tender form.
- xii) Purchaser reserves the right to accept or reject the tender without assigning any reason thereof.
- xiii) Technical meeting / pre-bid meeting dates will be informed accordingly.

Date: ----/----/2020

Place:-

CHAIRMAN

VICE CHAIRMAN

MANAGING DIRECTOR

**M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai,
Tal. Newasa, Dist. Ahmednagar**

2. SCOPE OF SUPPLY

Scope of work shall be as follows:-

1. Design, manufacture, procure, supply, erection & commissioning up to satisfactory trials as per the parameters given in the process performance parameters /guarantee (Section II –2.4).
2. The plant and machinery, equipments, instruments etc. shall be quoted as per the technical specifications given in Section II –2.1 as per the battery limits given in Section II –2.2.
3. The capacity, efficiency & performance of the said plant should be guaranteed as per parameters given in the process performance parameters /guarantee (Section II –2.4).
4. The work is to be executed as per the terms & conditions stipulated in this invitation and also in the specimen agreement (Section IV)
5. Your scope of supply (turnkey basis) should include the necessary equipments, plant & machinery, electrical, instrumentation, building, structural & civil work, civil foundations, roofing, painting etc. to meet with the requirements complete with the packing & forwarding charges, transit cum storage cum erection insurance, custom duties, GST, sales tax & other government levies, if any, erection, supervision and commissioning charges. This also includes other tools & tackles required for the fabrication at site, adequate manpower quite conversant to the fabrication & erection work of such plant and machinery.
6. All foundation bolts, foundation wedges, foundation packing, liners etc. are also to be included in the scope of supply.
7. After the finalization of the order, the supplier has to get all the foundation and other civil drawings & all the detailed GA drawings of each & every part of plant & machinery, piping layout drawing, equipment layout & elevation drawings, P&I diagrams approved from the **inspection agency “Vasantdada Sugar Institute (VSI), Pune”** appointed by the **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar.**

All the drawings submitted well in advance to purchaser's inspection agency (VSI) for prior examination & approval thereof.

8. All the consumables required for erection & commissioning like gas cylinders, all types of welding /brazing or soldering rods, emery papers, grinding paste, hold lights, graphite, Kerosene, Oil, Rustburg, back joints, packing's, etc. are also to be included in the scope of supplier.
9. All types of tools & tackles like hoisting tools, chain blocks, pulleys, wire ropes, hooks, cranes, hydra etc. to be arranged by supplier. All special tools required are also to be arranged at supplier's cost. All staff including Engineers, Technicians, Skilled, Unskilled workers, Khalashi required for loading /unloading, fabrication, erection etc. should be arranged by supplier. The machinery & other equipments arrived at site should be properly stored at site. Supplier shall also adopt the transportation of machinery and equipments from the stored place to their respective position. After completion of the project the precision tool kits are to be handed over to **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar.**
10. Technical Services shall include: -
 - a. Project In charge: - Supplier will provide a qualified & experienced project Engineer /Manager to supervise the installation & erection of the plant who will be stationed at site.
 - b. Training of the Purchaser's personnel: - Supplier shall arrange to train the purchaser's all personnel for the process operation & maintenance of the plant being set up under the agreement on its own cost.
 - c. Startup services: - Supplier will provide qualified staff for start up of plant and during the performance period.
 - d. After sale services: - Routine operation field review & training update. Supplier will furnish a qualified field engineer to review unit operations & provide additional on-site training on demand by the purchaser.

11. Electricity required for site fabrication will be supplied at actual cost at one point. Cables for welding machines are to be arranged by supplier. Similarly, energy meter required for the same will have to arrange by supplier.
12. Water required for erection & trials will be supplied free of cost. For lifting of water required pumps and its piping is in the scope of supplier.
13. Before submission of offer, tenderers or their representative should visit the Sugar mill site for inspection of site.
14. The tenderer should also get acquainted with the local conditions at the Sugar mill site & must know the rules & regulations of Central & State Govt. and has to follow law of land.
15. All fabrication of equipments will be done under stage wise third-party inspection (VSI). All bought out equipments should be offered for inspection before dispatch. The list of sub contractors shall be approved /certified by the Purchaser.
16. Design, supply, erection and mechanical, water & pre-commissioning trials of the plant & machinery should be completed within **six months** from the date of purchase order. Plant should be commissioned & stabilized within **15 days period**.
17. The supplier will prepare & submit to purchaser the PERT /CPM chart and time schedule accordingly. Supplier should ensure that they would maintain the time schedule as per the chart.
18. The price should be quoted in the specified format. Income Tax applicable will be deducted at source.
19. Supplier should arrange lodging & boarding facilities for their own staff.
20. a) Supplier should submit as built drawings (four copies each) for all fabricated equipments, actual equipment layout, piping layout, cable layout, elevation drawings & GA drawings.
b) Four sets of G.A. drawings and O & M manual along with all circuit diagrams will be provided by the Seller.
c) Seller will provide instrumentation details and calibration requirement.

21. First fill of oil & grease for all pumps will be in the scope of supplier.
22. The supplier will obtain the required statutory approvals / consents for the plant; However, Govt. fees will be paid by the purchaser.
 - a) Electrical Inspector
 - b) Factory inspector
 - c) Fire & safety as well as Water hydrant system
 - d) Labour license from labour commissioner

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3. TERMS AND CONDITIONS

1. General Guidelines:

- i. Tenderers are advised to carefully study these conditions and other tender documents before quoting their rates.
- ii. Before submitting the tender, each page of these conditions /tender documents must be signed by the tenderer, over the firm's seal, in token of their acceptance of the same.
- iii. Tender should be submitted only in the prescribed form and should be submitted only by the purchaser /party in whose name those are issued. Violation of this provision will automatically debar the tenderer from consideration.
- iv. Tenders received after the specified date or postal delay or man reach delay will not be considered.
- v. All entries should be made in ink, any correction should be attested by signature of tenderer over the firm's seal, Over-writing will not be accepted. Incorrect words /figures should be crossed and correct figures rewritten.
Conditional tender will be considered as invalid.
- vi. All rates quoted should be both in words and figures, In case of any difference between the two; the rates quoted in words would be considered as final and authentic.
- vii. The prices quoted by the Tenderer are firm and final & **NO ESCALATION WILL BE ENTERTAINED.**
- viii. Price of the machinery shall be inclusive of the packing & forwarding charges, handling, transportation up to Sugar mill site, unloading at Sugar mill site, erection, commissioning up to satisfactory trials & supervision thereof, transit cum storage cum erection insurance, etc. Goods & Service Tax (GST), octroi, custom duties, other State/Central Govt. levies, will be extra against proof of payment only.
- ix. Price shall also be inclusive of foundation bolts, first fill of oil & grease, culture required for the commissioning.

M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar.

- x. Price shall also include other tools & tackles required for the fabrication at site, adequate manpower quite conversant to the fabrication & erection work of such plant and machinery.
- xi. Any deviation from the specifications, scope of supply and terms and conditions will make the tender liable for rejection.
- xii. Minor changes suggested by the purchaser shall be carried out by the supplier without any additional charges whatsoever and without affecting performance parameters.
- xiii. If tenderer wants to have bifurcation of the order, viz. civil, supply and erection, commissioning etc. they should mention it in the offer very clearly.
- xiv. Supplier shall become Class "C" nominal member of the Sugar mill.
- xv. Contract period: Unless otherwise specified /agreed; the contract is awarded for **six months**.
- xvi. Sugar mill reserves the right to -
 - a) To divide the work among the supplier's at the discretion of the purchaser
 - b) To reject any or all tenders either in full or in part, without assigning any reason whatsoever and
 - c) To engage additional supplier at any time without giving any notice whatsoever to the suppliers already appointed against this tender.

2. Eligibility:

Tenderer should have successfully commissioned **minimum two** plants which have been operating successfully.

- * Tenderer should be registered with NFCSF
- * Tenderer should submit the performance certificates for at least **two plants** of condensate polishing unit based on Conventional Technology, supplied & successfully commissioned by them (Turnkey supply of total plant and not the equipment supply).
- * **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar** has reserved its rights to opt for above conditions or anyone of above conditions

3. How to apply -

- i. Tender is to be submitted in three separate sealed envelopes.
- ii. **Envelope No. 1** should contain Technical Bid (Refer Section-II), General Terms & conditions, Declaration & Specimen agreement (Refer Section-I, III & IV)

Envelope No. 2 should contain Price Bid with Declaration (Refer Section-III) &

Envelope No. 3 for EMD

In respective envelopes duly signed and sealed. The name of the company with complete address, telephone /fax Nos. etc. should be written on it.

The three envelopes should be superscripted in bold letters (Tender for Condensate Polishing Unit) as "**Technical Bid**", "**Price Bid**" & "**EMD**" respectively.

Three envelopes should then be put in another outer envelope and then to be submitted before the closing date and time.

- iii. Tenderer or his representative should personally deposit the tender well before the closing time and date at the office of **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar.**

M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar will not accept any responsibility if the tender is not submitted personally by the tenderer but instead handed over to any employee. If the tender is submitted by post, the same must be mailed by registered post. The cover subscribed in bold letter with tender number, closing date should be addressed to the **Managing Director, M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar.** The postal delivery must take place latest on the working day preceding the date of closing of tender.

- iv. Tender received late /in open condition /without EMD / insufficient EMD /not meeting this tender conditions /incomplete in any respect

/any variation in technical specifications are liable to be summarily rejected.

4. Earnest money deposit:

Interest free EMD in following mode to be submitted alongwith the offer

- a. Demand draft /Bank Guarantee of any Nationalized Bank in favour of **Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar.** Payable at **Newasa, Dist. Ahmednagar.**

Note: EMD in form of cash / cheque shall not be accepted. No interest shall be payable on EMD.

Please furnish the following information on your letterhead -

- a. Name & address of your banker
- b. Account No.
- c. Branch name and code no. to facilitate timely release of your EMD

4.1 Refund of EMD:

EMD paid against the tender is refundable to the unsuccessful tenderers on finalization of the tender and placement / acceptance of the order by successful tenderer. EMD of successful tenderer will be retained by purchaser and will be returned without any interest after successful performance trial of the plant.

4.2 Forfeiture of EMD: -

EMD is forfeited in the following event.

- i. Withdrawal of offers while the offer is under consideration during the validity period.
- ii. Non -acceptance of order / non-confirmation of acceptance of order when placed on mutually agreed terms.
- iii. Any Unilateral Revision made by the tenderer after placement of the order.

5. Clarifications: -

- i. Clarifications /doubts shall be entrained in the Pre-bid/ Technical sub-committee meeting of Sugar mill.
- ii. Purchaser reserves the right to clarify with any or all tenderer.

- iii. Tenderers may be required to visit Purchaser's office for clarification/ verification of documents entirely at the cost of tenderers.
- iv. Only the proprietor of the firm or the only authorized representative of the firm must personally attend such clarifications, as commitments made and or clarifications given during clarifications will be binding on the tenderers. He /she should carry the necessary authorization to attend such clarifications and hand over a photocopy of the same to the Purchaser.

6. Validity of the Tender:

The quotation / offer shall remain valid up to **four** months from the date of opening. Tenders unless extended by mutual consent in writing. Breach of this provision will entail forfeiture of the earnest money.

7. Finalization of the Tender:

- i. The price finalized by the Purchaser shall be firm, final & no escalation / de-escalation whatsoever will be allowed except on taxes & duties as mentioned in clause 11 below.
- ii. Once the tender is finalized in the name of a tenderer, it will not be transferred to any other firm.

8. Performance Guarantee:

- i. As per the parameters given in Section II –2.4 & as per specimen agreement (Refer Section IV).
- ii. All the plant & machinery & its accessories should be guaranteed for a period of 12 months from the date of commissioning for material, workmanship & performance.
- iii. Plant & machinery and its accessories should be of standard specifications, first class quality and workmanship. The supplier shall replace free of cost any material found defective during the guarantee period. If the supplier fails to do so at the request of Purchaser, the Purchase shall be free to do so, on the risk and cost of the supplier without his consent.

iv. Process Performance Guarantee for

- A) Condensate polishing unit (CPU) for treating the process condensate of raw spent wash evaporation plant and spentlees from distillery plant should be for following parameters: -15 days
- a. Treated condensate generation as output (M³/day)
 - b. Treated process condensate characteristics-
 - i) Temperature (°C)
 - ii) BOD & COD (PPM)
 - iii) TDS (PPM)
 - iv) TSS (PPM)
 - v) pH
 - c. Consistency of stable plant operation (days)
 - d. Chemical consumptions (Kg/day)
 - e. Power consumption (Kwh/day)
 - f. Effluent generation (M³/day)
 - g. Performance of bought out items.
 - h. Steam required for condensate polishing unit (MT/day)
(If required)

9. Payment Terms:

The purchaser shall pay the contract price in the following manner:

- 9.1 10 % (Ten percent) advance of the contract price for plant and necessary facilities contained in Section III- 3.2 only of this agreement i.e. Rs. -----
-----/- (Rupees-----/-) within 15 (fifteen) days of signing of this agreement, on furnishing of Bank Guarantee by the seller for the said advance in the form annexed to this agreement.

After receipt of advance of 10 %, the seller should submit to the **Purchaser and the Inspection agency** the following within 15 (fifteen) days for approval:

- a. Billing schedule/price break-up and erection schedule
- b. Layout of plant & machinery
- c. Bar chart indicating activities
- d. Dispatch schedule

- 9.2 5 % (Five percent) advance of the contract price for plant and necessary facilities contained in Section III- 3.2 only of this agreement i.e. Rs. -----
-----/- (Rupees-----/-) shall be paid to the seller within 15 days, on furnishing bank guarantee by the seller for the said advance in the form annexed to this agreement

After receipt of advance of 5 %, the seller should submit to the **Purchaser and the Inspection agency (VSI)** the following within 15 (fifteen) days for approval:

- a. Piping, electrical and instruments particulars and drawings.
- b. List of detailed specifications of bought out items
- c. Utilization certificate of advance.
- d. GA drawings
- e. Civil & Structural drawings

- 9.3 65 % (Sixty five percent) of the price referred to above for plant machinery i.e. Rs. -----/- (Rupees -----/-) and the reimbursement of actual amount of Goods & Service Tax (GST), octroi, (custom duty on imported goods, if any) on documentary evidence, after the receipt of material at site and approval of the same. The advance paid under clause 9.1 & 9.2 (i.e. 15%) will be adjusted in this amount. The bank guarantees for advance will be returned to supplier after satisfactory commissioning of Condensate polishing unit.

In case of items are fabricated at site etc. proportionate amount of the bill value will be paid only after completion of fabrication work at site.

In case of bought out items etc. proportionate amount of the bill of individual item will be paid after receipt of total material and assembling all parts at site like pumps & motors, MCC panel, UF, instrumentations etc.

Submission of bills and payments:

- i. All the details of GST paid by the supplier shall be shown separately for own manufactured items and for bought out items & to be submitted to the purchaser along with bills by supplier.
- ii. The amount shown in supplier's bill for payment of all such GST will be computed on the basis of all such relevant statutory provisions in

force on the date of dispatch and shall the supplier pay the actual amount as.

iii. The payment shall be released by the purchaser within ten days from the date of submission of approved bills.

9.4 10 % against erection of plant & machinery and after Mechanical & Hydraulic trials certified by the purchaser or its inspection agency.

9.5 10 % after successful commissioning and performance trial of 15 days for Condensate polishing unit against performance security deposit of 10 % valid for 12 months from the date of successful performance trial.

(For more details please refer the draft agreement)

10. Rate Validity:

The quoted rates shall be valid for minimum period of **four** months from the date of opening of the tender and once the offer is accepted and the supply order is placed on the successful party, the rates shall remain valid till the entire delivery is completed.

11. Goods and service tax (GST):

- a) The Govt. taxes (GST, State GST or Interstate GST etc.) and other levies, if any on the works contract shall be borne by the Tenderer.
- b) Tenderer must declare the leviable GST clearly and the purchaser on documentary proof of payment made will pay the same but in no case the contract price will exceed than specified by the purchaser.
- c) Octroi/ entry tax if applicable shall be reimbursed on actual against documentary evidence.

11.1 Turn over tax:

Turn over tax, as applicable, if any, will be borne by the purchaser.

11.2 Goods and services tax (GST):

- i. Tenderer must declare the GST clearly and the purchaser on documentary proof of payment made will pay the same. If there is any

difference in the GST quoted and the actual, the differential amount will be recovered from the payable amount.

- ii. The supplier shall furnish to the **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar** with their bills, GST, gate pass in the support of GST, if any. If excise invoice is not submitted the relative GST amount will be liable for deduction from bill as per the Excise rules.

11.3 Income Tax:

Income Tax, if applicable, will be deducted at source, while releasing the payment against R.A-Bill / Total Bill.

12. Changes in GST structure:

Any increase or decrease or any changes in GST will be made applicable to both the purchaser & supplier subject to the authenticated proof. The increase in the amount of taxes and duties will be on Supplier's account if the material is not supplied as per delivery /dispatch schedule /PERT chart.

13. Packing, Forwarding, Transportation & Insurance

The prices quoted should be inclusive of packing, forwarding, handling, transportation up to Sugar mill site, unloading at site, transit cum storage cum erection insurance etc.

14. Submission of bills and payments:

- i. All the details of GST paid by the supplier shall be shown separately for own manufactured items and for bought out items & to be submitted to the purchaser along with bills by supplier for the reimbursement of the same.
- ii. The amount shown in supplier's bill for payment of all such GST will be computed on the basis of all such relevant statutory provisions in force on the date of dispatch and shall the supplier pay the actual amount as.
- iii. The payment shall be released by the purchaser within fifteen days from the date of submission of approved bills.

15. Delivery period:

Tenderer has to adhere to the period stipulated for delivery completion of work in all respect very strictly.

Design, supply, erection and mechanical & water commissioning of the plant & machinery should be completed within **six months** from the date of purchase order. Plant should be commissioned & stabilized within 15 days period after six months erection period.

Liquidated damages for late delivery shall be @ 2 % of contract price per fortnight up to a maximum 10 % the total contract price.

16. Supplier's Responsibilities

16.1 Approvals & Consents:

The supplier shall provide necessary assistance and obtain the necessary approval consents from State Excise, Central Excise, Weights and Measures, Factory & Electrical Inspector, Other authorities as per the statutory requirement in respect of plant to be supplied / erected by the supplier. The supplier will obtain the required approvals / consents at their cost.

a. Electrical Approvals-

- i. All flameproof equipments shall be certified by CMRS, Dhanbad. CMRS certificate no. should appear on the nameplate of the equipment.
- ii. CPRI test certificate for the design & construction of MCC
- iii. Panel should be furnished by the supplier.
- iv. Type test certificate of CPRI, Bhopal for short-circuit with standing capacity & supplier will furnish degree of protection.
- v. The panels shall have Tariff Advisory Committee's Approval.
- vi. Other necessary approvals /certificates.

16.2 Drawings, Codes & Standards & Testing

16.2.1 Drawings and information required from SUPPLIER during contract stage

The drawings and documents to be furnished by the SUPPLIER (four copies) after the award of the contract shall include a drawing /document submission schedule clearly identifying the documents to be submitted and the purpose of the submission (for information /approval etc.) shall be furnished after discussions and in consultation with the Inspection agency (VSI) and purchaser.

Process and Mechanical:

- Detailed time schedule in the form of network or bar chart for the design, manufacture, delivery period with critical milestone activities and other important intermediate dates for uninterrupted progress of the project.
- List of approved vendors is provided with this tender who should be followed.
- List of manufacturers and specifications of all standard equipment.
- Piping and instrument diagrams for all media showing all related equipment.
- Complete plant performance data including predicted performance at various loads, heat transfer areas, pressure drops, temperature profiles, part load efficiency etc.
- Start-up and shut-down operations for the plant.
- Valve schedule
- Overall plant elevation and plot plan.
- Loading data for the plant /tanks and auxiliaries and above ground mounted equipment and supports.
- Fermentation, distillation plant and storage layout and details.
- IBR /Factory Inspectorate approved drawings and documents.
- Chemical dosing system arrangement and piping layout drawings.
- Overall dimensional drawing of all distillation columns and equipments.
- Manuals indicating pump cross section view showing parts, materials and fittings and the characteristic curves.
- Fans & pumps performance test reports.

- Completed data sheets for pumps/motors/fans.
- Details of safety valve including manufacturer's catalogues and service instructions and capacity calculations.
- Piping layout drawing.
- Purchase specifications for all bought-out items
- Quality plans
- Material test certificate & inspection reports
- Plant process operation and maintenance manual including catalogues, bought out items, start up procedures and O & M manuals for bought out items.

Control and Instrumentation

- Technical specifications of PLC field instruments, sensors and controls indicating operating parameters as per P & I diagram and recommended ranges of the parameters as per the process requirements.
- List of alarm annunciation points with set values (Manuals).
- Layout drawings for local control panel /boxes.
- Hook-up drawings
- Cable schedule

TENDER SPECIFICATION FOR CPU ELECTRICALS

1 MOTOR CONTROL CENTER:

Medium voltage switch board shall be dust, damp & vermin proof construction sheet steel clad totally enclosed, floor mounted, self standing type with single front and front door opening compartmentalized cubicle design with single TPN bus bar arrangement on top with front access with cable entry and outgoing from bottom of the MCC panel. Incomer shall be 4 pole ACB/MCCB provided or 3 pole. The neutral isolation is to be provided through contactor

- a. Local /remote facility to be given.
- b. Capacitor Reactor banks for power factor improvements suitable as per load on MCC panel.
- c. Separator feeders for operating and standby motor loads with suitable handle for operating to each MCCB.

d. Ammeter to be provided for each feeder.

e. Fuse less system in MCCB and MCC.

The switchboards shall be suitable for the following operating system.

Rated voltage : 415V, 3Ph, 4 Wire

Rated Frequency : 50 Hz

Fault Level : 50 kA for 1 Sec.

Enclosure : IP52

The panel shall be designed for an ambient temperature of 50⁰C. The design, manufacture and testing of the various equipment covered by these specifications shall comply with the latest standards.

MCC'S will be made from CRCA (Cold Rolled Cold Annealed) sheet metal fabrication. MCC will be compartmentalized, non-flame proof type with MCCB system and located at non-flameproof area.

Fuse less system in MCC

MCC will be fabricated from 14/16-gauge MS CRCA sheet, floor mounted, suitable for indoor installation, vermin/dust proof, weatherproof with IP52 degree of protection. Cable entry shall be from the bottom as a standard feature. Electronic energy meter, Voltmeter, Ammeter tray, PF meter to be provided for all MCC's.

SMPS power supply (if required) with 24 V DC for controller of each feeder /starter to be considered.

Each starter of MCC will consist of:

- MCCB
- Control unit with Contactor, Relay for all protections trips and alarms.

Motor Protection like

- Thermal Overload
- Over/Under current
- Long Start / Jam
- Ground current
- Motor temperature sensor
- ON/Trip indication
- Emergency stop stay – put push button interlocking system with PLC.

Network Communication facility

- Modbus or
- CAN Open or
- Profibus DP or
- Device Net or

Ethernet

The ability of fault diagnostic and fault history along with other facilities shall be given for this intelligent MCC.

Motor rating above 15 KW, Star Delta starter will be provided. MCCB (Molded Case Circuit breaker) for rating upto and including 6300 Amp.

- ACB (Air Circuit breaker) for rating above 630 Amp.
- 1.1 KW or above 1.1 KW Ammeters shall be provided
- For star – delta. All contactor shall have equal capacity

2. POWER AND CONTROL CABLES:

Individual motors will be connected to MCC by 1.1 KV grade, PVC sheathed armored cables. Cable sizes for respective motor rating will be as follows. All incoming cables of suitable size from PCC to all MCC's shall be in scope of supply.

Motor up 1.5 KW	1 No. x 3 core x 2.5 mm ²	Aluminum
Motor above 1.5 KW & up to 5.5 KW	1 No. x 3 core x 4.0 mm ²	Aluminum
Motor above 5.5 KW & up to 11 KW	1 No. x 3 core x 6.0 mm ²	Aluminum
Motor 15 KW	1 No. x 3 core x 10.0 mm ²	Aluminum
Motor 18.5 KW	1 No. x 3 core x 10.0 mm ²	Aluminum
Motor above 18.5 KW & up to 26 KW	2 Nos. x 3 core x 10.0 mm ²	Aluminum
Motor 30 KW	2 Nos. x 3 core x 16.0 mm ²	Aluminum
Motor above 30 KW & up to 45 KW	2 No. x 3 core x 25.0 mm ²	Aluminum
Motor up to 55 KW	2 No. x 3 core x 35.0 mm ²	Aluminum
Motor above 55 KW & up to 75 KW	2 No. x 3 core x 50.0 mm ²	Aluminum
Motor 90 KW	2 No. x 3 core x 70.0 mm ²	Aluminum
Motor 110 KW	2 No. x 3 core x 95.0 mm ²	Aluminum
Motors above 110 KW	With suitable size.	Aluminium
VFD Motors	With suitable size.	Aluminium
Control cable for push button station	1 No. x 3 core x 1.5 mm ²	Copper

3. INTERNAL POWER WIRING

All the power wiring will be carried out by using copper cable. Cable sizes will be as follows.

	Motor rating		Cable size
For DOL Starter	Upto 5.5 KW		2.5 mm ²
	Upto 7.5 KW		4.0 mm ²
	Upto 9.3 KW		4.0 mm ²
	Upto 11.0 KW		6.0 mm ²
	Upto 15.0 KW		10.0 mm ²
	Upto 18.5 KW		10.0 mm ²
	Motor rating	Cable size (Supply side)	Cable size (Motor side)
For Star-Delta Starter	Upto 18.5 KW	10.0 mm ²	4.0 mm ²
	Upto 22 KW	16.0 mm ²	6.0 mm ²
	Upto 30 KW	25.0 mm ²	10.0 mm ²
	Upto 45KW	50.0 mm ²	25.0 mm ²

4. CABLE TRAYS:

Galvanized Iron cable trays will be provided for indoor & outdoor application.

5. EARTHING:

Earthing would be done using G.I. pipe rods as per IS standards. G.I. conductor earthing will be done for all electrical equipment and non-current carrying metallic structures/tanks. G.I. conductors will be used for lighting protection, connected directly to separate earth pit.

6. PUSH BUTTON STATION:

Push button station will be provided near the motor wherever required. Flameproof push button station (as per IS 2148) will be provided for flameproof section and non-flameproof push button station (as per IS 2147) will be provided for non-flameproof section.

7. PLANT LIGHTING AND LIGHTENING PROTECTION:

1. The normal process area lighting (LED) will generally comprise of Fluorescent fittings & Mercury vapour fittings.
2. Flameproof light fittings conforming to IS 2148 shall be provided for hazardous areas.
3. Plant lighting with flame proof fitting will be provided in flame proof areas particularly in distillation & storage section while non-flame proof fittings in non flame proof areas.
4. The normal lighting design will be based on average illumination levels recommended as per IS & calculated to take into consideration the aged output of Lamps. All operating platforms for all floors of plant area shall be properly illuminated. LED lightning is to be considered.

PLANT AREAS	ILLUMINATION LUX	POSITION OF MEASUREMENT
General Area	160	800 mm above floor
Non Operating	50	800 mm above floor
Stairways & Exits	50	AT Treads
Local Machinery Panels	200	ON Panel

The suitable lightning protection shall be provided at Chimney, Boiler and distillery section for arresting the lightning.

8. Documents /Drawings to be submitted for approval during contract stage:

The following drawings/documents (4 copies) shall be submitted by the Supplier for Purchaser / Inspection Agency approval:

1. Single line diagram
2. Vendor drawings, control schemes and other details for MCCS.
3. Physical layout of electrical system showing all panels, motors etc.
4. Cable tray and trench layout.
5. Cable schedule & interconnection charts.
6. Earthing schedule and layouts.
7. Lightning protection drawings.

8. Data sheets BKW calculation and characteristic curves for all motors.
9. Test certificates for panels, critical components and electric motors.
10. Operation and maintenance manuals for all electrical equipments.

9. Scope of work in services

a. Design and engineering:

- Preparation of cable layouts, Earthing Layouts and Lighting Layout drawings
- Preparation of panel layouts for L.T. Panel room and control room
- Preparation of cable schedule, interconnection schedule and detail BOQ of panels.
- Preparation of inspection plan and schedule.
- Preparation of schedule for site testing and commissioning.

a. Statutory approvals :

- Obtaining approvals on drawing and designs from local Electrical Inspector, factory inspector and Chief Electrical Inspector authorities.
- Arranging inspections and approvals for commissioning of total cogeneration plant electrical from Local and Chief Electrical Inspector PWD.

b. Inspections / Review Meetings :

- Making the arrangements for periodical and final inspection of all major equipments in the system at manufacturers works
- Attending the periodical review meetings at site or the agreed locations.

10. Battery Limits:

From: PCC Panel

To: Incoming ACB / MCCB cubicle of MCC and onwards.

- Earthing :Total earthing system required for plant shall be included in this package along with required excavation, back filling and preparation of earthing chambers for Electrodes
- Illumination system : Entire Illumination system required for plant shall be included in this package including lighting of area at all elevations.

11. Performance Guarantee

All equipment shall be guaranteed for workmanship and materials and for satisfactory performance in accordance with the relevant clauses of the General Conditions of Contract.

The guarantee for performance shall cover individual items and systems for their ratings/outputs, as required in the specification.

12. MAKE OF COMPONENTS:

Sr. No.	Item	Make
1	LT Cables	Polycab /Finolex
2	Switchgear	L & T
3	Push Buttons	L & T /Siemens/Teknic
4	Indicating Lamps	Teknic / L & T
5	Selector Switches	Kaycee /Salzar
6	LT Capacitors-reactor(HF)	Schneider /L. &T. /Ambik
7	L.T. Panels	CPRI Approved type tested panel builder
8	Bus trunking	CPRI Approved type tested panel builder
9	Lighting fixtures	Bajaj/Crompton/Wipro/Oreva
10	Motor	Siemens only
11	Capacitor/ Reactor	Ambik
12	VFD	ABB/Yaskawa/Siemens
13	Piping	TATA/Jindal
14	Lighting	LED type (Wipro, CGL, Bajaj)

MOTOR:

All electrical motors (for equipment in the scope of supply) shall be supplied. These shall be suitable for operation at 415 V +/- 10%, 3 phase, 50 Hz +/- 5%, combine variation +/- 10% power supply.

Motors shall have insulation of class 'F' but temperature rise shall be limited to class 'B'.

All the motors shall be of **energy efficient IE3 type**

The motor shall meet the following requirements.

- a) Highest among the commercially available makes & range.
- b) Flat efficiency curve between 60% to 100% load.
- c) Efficiency shall be guaranteed without any negative tolerance and tested.
- d) **SUPPLIER** shall obtain specific confirmation / approval from the Purchaser / Consultant before procuring the motor, for the guaranteed efficiency figures. All motors of rating above 5.5 KW shall be provided with space heaters. For motor rating 15 KW and above shall be suitable for star delta method of starting.

Terminal box to be rotatable by 4 x 90 Deg. Higher rated motors shall be provided with extension terminal box to receive the aluminum cables to avoid cramping of the cable in the terminal box. The terminal boxes shall be capable of withstanding the maximum system fault current (50 KA) for a duration of at least 0.25 second.

The motor shall be capable of withstanding 150% of the rated voltage. Motors shall be capable to start and run-up at a minimum of 80% of rated voltage at its terminals with the driven mechanism / equipment connected. Break away torque, pull-up torque and pull-out torque shall be properly co-ordinate with the speed torque characteristics of the driven equipment and the **SUPPLIER** shall submit the characteristic curves interposing motor & driven equipment curves. Motor shall be capable of withstanding locked rotor current for at least 5 seconds longer than the starting time under rated load conditions. Starting current shall be less than or equal to 600% of the rated current and the motors shall be designed for direct on line / reduced voltage starting. Continuous duty motors shall be capable of three equally spread starts per hour under normal condition or two starts in quick succession from cold or one hot start, under rated load conditions.

The selection of drive motor rating for all pumps shall be done considering maximum of the following requirement:-

- a. 15% margin over the B KW at the rated duty parameters.
- b. All motors above 55 KW shall have RTD, BTD.
- c. Invertors duty motors, wherever required shall have insulated bearings at its NDE end and VPI treatment windings.

ELECTRICAL WORK FOR CPU SECTION

NOTE: In addition to below the technical specification given above will applicable.

Complete electrification of plant including design, manufacture, procure, supply, erection, testing & commissioning of compartmentalized MCC, electrical motors, **all flameproof equipments**, power cables, control cables, instrument cables, lightning arrestor, cable trays, local push button stations for each & every pump, blower, vacuum pump, agitator etc., lighting of all sections of plant including light fittings, earthing pits etc.

It also includes cable laying, earthing of motors, MCC, push button stations etc. All necessary modifications, trials, etc.

In MCC, 3 Nos. spare compartments suitable for higher HP starters shall be provided. Panel MCC boxes should be as per Indian Electric Rule (thickness) switch, starter, relays and conductors, ACB, MCCB, ELCB etc. should be of L&T/Siemens/schneider Volt, Ampere meter & energy meter for each panel should be of AE/teknik, newtech make. A copper thimble only is to be used. Earthing should be as per Indian Electrical Rule Standard only. Cable (3.5 core) from main power house to MCC panel is in supplier's scope.

Earthing Type- Pipe in pipe having diameter 80 mm X 10 feet long.

Every MCC panel should have multi function meter.

All lighting – LED

MOC of sleeve in pumps should be SS-316

17. Instrumentation & Controls

The scope of instrumentation work shall include the following:-

Design, system engineering, manufacture and supply of all hardware and software necessary to meet the specified functional requirements as required for the Condensate Polishing Unit.

Implementation of measurement, monitoring, alarm, recording and control of the following as a minimum through PLC and SCADA for Condensate Polishing unit.

- a. Temperature control
- Pressure control
- Flow control

Level control

Plant protection & safety interlocks

Plant startup /shutdown sequence

Other required controls as per overall system design:-

- b. Local gauges, switches, sensors, field instruments for sensing, transmission and all the associated accessories such as Isolation valves, Impulse piping, tubing, fittings and accessories for the connection of instruments and control equipments to the process etc., that are required for the safe and continuous operation of the systems. All transmitters shall be SMART type.
- c. Interposing relays and other types of converters that are required to convert one type of voltage level to another for actuating the final control elements.
- d. Interconnecting cables between the field instruments and the control panel, branch cables between the field instruments and junction box, inter panel wirings, internal wiring of the panels.
- e. Various final control elements like control valves, solenoid valves, pneumatic actuators, power cylinders etc., along with all necessary filter regulators, piping/tubing etc.
- f. Hardware required for erection by the Erection Contractor such as junction boxes, clamps, air headers, cable trays, cable glands, supporting structural and the other necessary materials that are required to carry out the erection work as per engineering practices.
- g. In addition to local mounted instruments, local Boards free standing and fully wired and complete with essential instruments as per the Supplier's practice for guidance of operator.

List of Documents/Drawings to be furnished

The following are the documents/drawings (4 Copies) to be given by the Supplier during contract stage.

- a. Specifications and Drawings including Supplier's recommended layout of instruments in field and control room.
- b. PLC architecture
- c. PLC configuration diagram
- d. I/O list

- e. Control Panel drawings
- f. Spare parts list (Commissioning & Maintenance)
- g. List of Tools and Tackles
- h. List of calibration and diagnostic equipments
- i. List of Consumables
- j. Power consumption estimate
- k. Instrument air consumption estimate
- l. Environmental conditions for instrument operation
- m. Consolidated bill of material including field instruments and Erection hardware
- n. Technical catalogue/literature of the model of the PLC System components and accessories offered.

Note: These documents shall be provided as hard copy.

17.1 Insulation for various equipments

This specification covers the technical requirements and essential particulars for the supply of the complete thermal insulation and its protective covering for pipes, valves, fittings including bend, equipment, tanks and vessels, all distillation columns etc. with working temperatures above 50⁰C up to 500⁰C. Unless otherwise specified the scope of supply of the "Supplier" shall include, but not be limited to the following items:-

- a. Insulating materials for all types as specified/required.
- b. Angles, irons, clamps, lugs, etc. for supporting insulation on pipes, ducts, valves & fittings and equipments.
- c. Wire mesh, lacing/binding wires, bands, straps, screws, etc. as required.
- d. Weather hoods.
- e. Any other material as may be required for making the insulation work complete.

Codes and Standards

The supply of thermal insulation to piping systems and equipment covered under this specification shall comply with all currently applicable regulations and safety codes in the locality where the thermal insulation will be applied. The

insulating material shall also conform to the latest editions of the codes and standards listed below.

Nothing in this specification shall be construed to relieve the SUPPLIER of this responsibility.

- IS: 3346: Method of determination of thermal conductivity of thermal insulation material.
- IS: 10556: Code of practice for storage and handling of insulating materials.
- IS: 14164: Industrial application and finishing of thermal insulating materials at temperatures above 80°C and up to 200°C.
- IS: 737: "Specification for wrought aluminum and aluminum alloys sheet and strip (For General Engineering Purpose).

American Society for Testing and Materials

- IS: 8183: "Specification for Bonded Mineral Wool"
- IS: 3150: "Hexagonal wire netting for general purpose"
- IS: 3144: "Methods of test for Mineral Wool Thermal Insulation Material"

17.2 Testing and Inspection

1. Test and Inspection of pressure & Non-Pressure Parts
 - Inspection of raw material
 - Dimensional checking
 - Inspection of welds and complete assembly
 - Visual inspection on completion of finishing.
 - Inspection after painting.
2. Tests and Inspection on bought-out equipments
 - Stage Inspection of all the critical components
 - Dynamic balancing for rotating equipments
 - Performance tests of all the equipments.
 - Dimensional checking and visual inspections of final equipments on completion.
3. Tests on Instruments
 - Inspection of materials
 - Dimensional checking and stage inspection of all critical components

Checking of panels, checking of relays, simulation etc.

4. Quality Plan

The SUPPLIER shall submit a Quality plan detailing the list of tests and inspection envisaged for all the mechanical, electrical equipment and instruments during contract stage also indicating stages of inspection, Consultant /Purchaser hold points, etc. for approval.

During contract stage, detailed quality plan along with stages of inspection, customer hold points, etc. will be finalized and followed.

17.3 **Manpower:**

- i. Staff including Engineers, Technicians, skilled, highly skilled and labour, khalasi required for erection and commissioning of the machinery are to be deputed by the supplier.
- ii. The transportation of machinery and equipments from the stored place to their respective position is also to be done by the supplier's staff.

17.4 **Tools & Tackles:**

- i. Gas cutting equipments, electric welding set, adequate supply of Gas Cylinders and other consumable are to be managed by the supplier at his cost.
- ii. All tools and tackles required for erection are to be brought by the supplier. If purchaser's tools and tackles are used, extra rent will be charged.
- iii. All the instruments required for the performance measurement during trials will be brought by supplier.

17.5 **Breakages / Thefts:**

Purchaser will not be responsible for any breakages; the purchaser will entertain theft of the supplier or Sub-Contractors material kept at the site and no claim in this respect.

17.6 **Causality, Loss/Damages:**

- i. Any damage caused by the supplier's person/team to purchaser's property/person will be assessed and recovered from the supplier. In other words, the entire responsibility in connection with any acts or

deeds of supplier's person / team detrimental to purchaser during the course of work will be on supplier's account.

- ii. The responsibility in respect of injury caused to supplier's or sub contractors person / team or anything happened wrong during the course of work will be the supplier's responsibility.
- iii. During the period of execution of the work / job the supplier shall be fully responsible for any causality, loss or damage. The purchaser will not be responsible for any type of payment like compensation etc. to the supplier's workers.

17.7 Equipment Fabrication:

All fabrication of equipments will be done under stage wise third party inspection by purchaser. All bought out equipments should be offered for inspection before dispatch – 15 days.

18. Changes:

- i. Purchaser without invalidating this agreement may order minor extra work or make changes by adjusting work, the contract price being remained same. All such work shall be executed under terms & conditions of this agreement.
- ii. Except in an emergency endangering life or property, no change shall be made unless authorized in writing by the purchaser.

19. Purchaser's Right -

19.1 Risk purchase:

If the successful tenderer fails to execute the work as per order / schedule and after request of the purchaser contractor fails to do so then the purchaser shall be free to execute the work/purchase the required material on the risk and cost of the supplier without his consent.

19.2 Cancellation:

Purchaser reserve the right to cancel the contract forthwith upon or anytime after the happening of any of the following events:-

- i. If supplier commit a breach of any of the terms and conditions of the tender and fail to remedy such breach within ten days of the receipt of the written notice from purchaser in regard thereto.
- ii. If supplier do not adhere to the instructions which may be issued from time to time after mutual discussions in connection with the manufacture / supply of the material.
- iii. Purchaser's right to so terminate the contract shall be without prejudice to any of purchaser's rights and remedies against supplier and in the event of our so terminating the contract, purchaser shall not be obliged to pay for any loss or compensation in respect of such termination the security deposited will be forfeited.

20. Arbitration:

If at any time there should be any question, dispute or difference between the parties in respect of any matter arising out of or in relation to 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 a single Arbitrator when the parties may agree upon, otherwise to two Arbitrators, one to be nominated by each party. The Arbitrators shall before proceeding with the reference, nominate an Umpire to act in case of disagreement as Single Arbitrator. The award of the Arbitrators shall be final and binding on the parties and be accepted by them. This reference to the Arbitrators shall be deemed to be a reference under the provision on the Indian Arbitration and Conciliation Act, 1996 and the rules made there under and any statutory modifications and re-enactments thereof that may be made from time to time and actually in force at the time of the reference. The place of arbitration shall be **Newasa, Dist. Ahmednagar (Maharashtra)**. The cost of Arbitration shall be borne by the parties as may be decided upon by the Arbitrators or the Umpire as the case may be. No party shall take recourse to judicial courts including higher courts before exercising this clause.

21. Duplication of clause:

Whenever there is duplication of clause either in the terms and conditions or in the agreement, the clause, which is beneficial to the purchaser, will be considered applicable at the time of any dispute.

22. Execution of agreement:

- i. Successful tenderer will be required, before undertaking the contract, to execute the agreement with purchaser on court stamp paper.
- ii. Specimen set of agreement (Refer Section III) is enclosed along with the tender document. Tenderers are advised to carefully read the same and submit with tender duly signed on all pages over the official seal, in token of acceptance of the terms and conditions thereof.
- iii. The person signing the tender should produce necessary notarized power of attorney in original authorizing the signatory to act on behalf of the proprietor/firms before signing the agreement. The original power of attorney will remain with the purchaser.
- iv. Failure to execute the agreement within ten days time may render the tenderer liable for forfeiture of earnest money deposit and termination of contract without prejudice to the rights of the purchaser to recover the damages under law.
- v. All terms and conditions stipulated in the tender notice, tender document, agreement and other documents furnish with the tender and related correspondence shall form part of the contract.

We have read and understood the above terms and conditions of this tender and hereby agree to abide by them and the same are acceptable to us.

Date: ---- /---- / 2020

Place: M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai

**Signature of the representative of the
Plant & Machinery Suppliers (Tenderer)
with Company rubber stamp**

4. STATEMENT OF CREDENTIAL

a. General Information

1. Name of the firm
2. Nature of the firm (State whether Limited Company/ Partnership Company/ Co-operative Society / Proprietary)
3. Year of establishment
4. Company Registration No.
5. Registered address
6. Correspondence address of Head office with telephone, mail & fax nos.
7. Address of Branches, if any
8. Address of the workshop
9. Name & address of Director, in case of Limited Company
- b. Name & address of partners, in case of partnership firm along with
- c. Deed and MOU.
- d. Name & address of proprietor, in case of proprietary firm
10. Permanent Account Number (PAN)
11. Registration No. of ESI and PF
12. Excise Registration No.
13. MST & CST certificate
14. Work Contract Registration
15. Latest Income Tax Clearance certificate
16. Current solvency certificate
17. Name of Banker with full address
18. Style of account and account no.
19. Whether the firm has any suits/claims pending with tax authorities
(Give Details)

Note: Tenderer is required to fill up the above information wherever applicable or submit the documents in support of the above information.

b. Information related to Condensate Polishing unit:-

The whole Tender Document (in original) including:

1. Registration certificates from NFCSF
2. EMD in the form of DD/ Bank Guarantee
3. Plant performance certificates.
4. PWD registration certificates, Min. class III State Govt. approved with MoU.
5. Income tax returns certificates.
6. Statement of credentials.
7. Turn-over for last 5 years (give year wise)
8. Minutes of Pre-bid meeting.
9. Process flow diagrams.
10. Organizational chart & division undertaking such projects for execution.
11. List of orders currently in hand with their order value & order copy
12. List of projects commissioned in last 5 years with reference list of projects, year project value & performance certificates.
13. Details of the repeat orders
14. Details of sales service department & details of technical center or R & D, laboratory facility & list of patents acquired, if any.
15. Reference list and performance certificate of Continuous/fed batch fermentation and Multipressure distillation plant.
16. Any other highlights of process /system.

5. DOCUMENTS TO BE SUBMITTED

Following documents / details are required to be submitted by the tenderer: -

The whole Tender Document (in original) including: -

1. Registration certificates from NFCSF
2. EMD in the form of DD / Bank Guarantee
3. Plant performance certificates
4. PWD registration certificates, Min. class III State Govt. approved with MoU
5. Income tax returns certificates
6. Statement of credentials
7. Turn-over for last 5 years (Give year wise)
8. Minutes of pre-bid meeting
9. Organizational chart & division undertaking such projects for execution.
10. Section I- i.e. General document dully filled in wherever applicable, signing each & every page of the document with company stamp.
11. Section II- i.e. Technical Specifications for Condensate Polishing unit in purchaser's specified format only, duly filled in wherever applicable signing each & every page of the document with company stamp.
12. Section III- i.e. Commercial Format with declaration in purchaser's specified format only, duly filled in signing each & every page of the document with company stamp
13. Section IV- i.e. Declaration & Agreement duly filled in wherever applicable signing each & every page of the document with company stamp.
14. Section V- Format for Bank Guarantee & EMD
(For Advance, Performance, Bank Guarantee and EMD)
15. All the documents mentioned in the statement of credential.
16. Block diagram of water balance, mass balance and energy balance for Condensate Polishing unit
17. Drawings (Process flow diagram) for Condensate Polishing unit
18. No deviation certificates

6. CHECK LIST

Following documents should be submitted in the separate envelopes as given below:

Envelop No. 1 - (Technical Bid) -

1. Registration certificates from NFCSF
2. Plant performance certificates.
3. PWD registration certificates, Min. class III State Govt. approved with MoU.
4. Income tax returns certificates.
5. Statement of credentials.
6. Solvency certificates.
7. Turn over for last five years.
8. Minutes of pre-bid meeting.
9. Process flow diagrams.
10. Technical specifications duly signed.
11. The entire general document duly signed.
12. Declaration & agreement duly signed.
13. Water & mass Balance –block diagram.
14. Name, address & other details of your banker.
15. Photocopy of authorization letter.
16. No deviation certificates.

Envelop No. 2 - (Commercial Bid) -

1. Declaration
2. Price offer in the given commercial format

Envelop No. 3 - (Earnest Money Deposit) -

EMD in the form of Demand draft /Bank guarantee

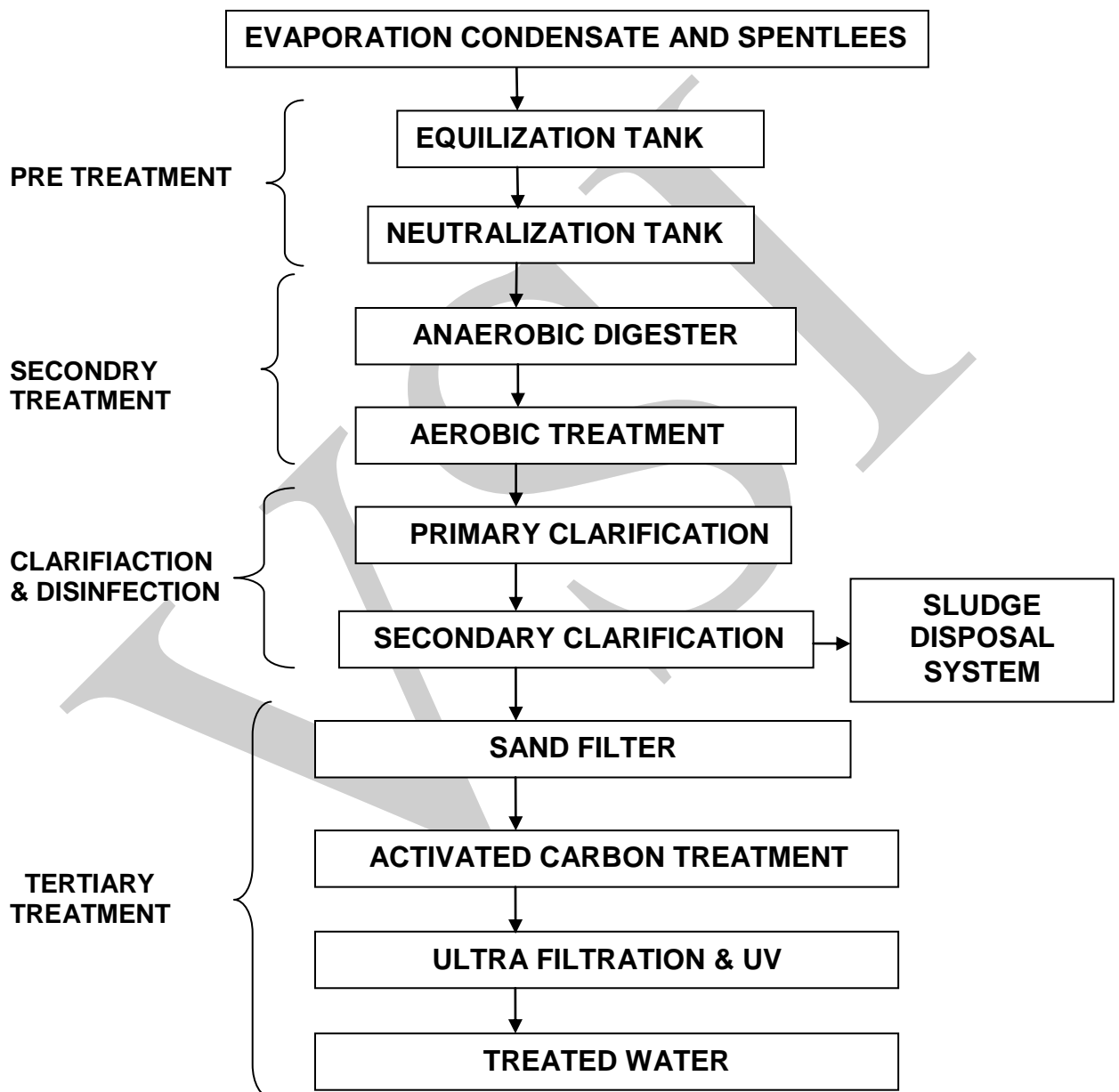
SECTION II – TECHNICAL SPECIFICATIONS

- 2.1 TECHNICAL SPECIFICATIONS FOR CONDENSATE POLISHING UNIT- BASED ON CONVENTIONAL TECHNOLOGY**
- 2.2 BATTERY LIMITS FOR CONDENSATE POLISHING UNIT**
- 2.3 SPECIFICATIONS FOR CIVIL & STRUCTURAL WORK FOR CONDENSATE POLISHING UNIT**
- 2.4 PROCESS PERFORMANCE PARAMETERS/ GUARANTEE FOR CONDENSATE POLISHING UNIT**
- 2.5 DRAWINGS FROM SUPPLIER FOR CONDENSATE POLISHING UNIT**
- 2.6 MAKES OF VARIOUS BOUGHT OUT ITEMS**

**2.1 TECHNICAL SPECIFICATIONS FOR CONDENSATE POLISHING UNIT
FOR TREATING THE PROCESS CONDENSATE OF RAW SPENT WASH
EVAPORATION PLANT AND SPENT LEES FROM DISTILLERY PLANT
≈ 550 M³/DAY**

- Suppliers providing alternate technologies or deviating from below mentioned technology should provide all details to the Sugar mill and Inspection agency (VSI) well in advance.

**TYPICAL PROCESS FLOW DIAGRAM FOR CONVENTIONAL TECHNOLOGY
FOR CPU**



(Supplier should provide cooling tower in order to cool the process condensate from 60°C to the temperature of 35°C or required temperature)

Sr. No.	PARTICULARS	SPECIFICATIONS
	<u>CIVIL WORKS</u>	
1	Holding /Retention tank (Neutralization Tank) (Evaporation condensate + Spentlees mixing)	Capacity- 50 M ³ MOC- RCC tank with agitator, No. 1
2	Equalization / Buffer tank	Capacity- 325 M ³ MOC- RCC tank with agitator, No. 1
3	UASB Digester	Capacity- 1200 M ³ No.-1 MOC- RCC OR MS with internal sand blasted epoxy coated, Shell Thickness (mm): As per IS -803-1976 Diameter (M): To be specified by supplier • Digester foundation-RCC ring wall foundation and bitumen concrete (min. 8% bitumen content) Height (M): To be specified by supplier Moisture trap (on biogas pipeline) with drain valve (MOC-SS- 304) Biodigester drain pipeline-100NB with necessary drain valves for digester. Staircase, railing for digester and walkway around the digester at top
4	Aeration tank	Capacity-1200 M ³ MOC-RCC, No.-1
5	Primary clarifier	Capacity- To be specified MOC-RCC, No.-1
6	Secondary clarifier	Capacity- 200 M ³ MOC-RCC, No. 1
7	Flocculator	Capacity- 30 M ³ MOC-RCC, No. 1
8	Lamella clarifier	Capacity- 90 M ³

		MOC-RCC, No.-1
9	Chlorination tank	Capacity- 25 M ³ MOC-RCC, No. 1
10	UF feed tank	Capacity- 25 M ³ MOC-RCC, No. 1
11	UF reject tank	Capacity- 15 M ³ MOC-RCC, No. 1
12	Treated water tank	Capacity- 100 M ³ MOC-RCC, No. 1
13	Sludge drying bed	Capacity- M ³ - To be specified MOC-RCC, No. 1
14	Equipment foundations	MOC-RCC
15	Laboratory cum MCC room	1No.
16	Shed for UF + Filter	20 M x 6 M x 3.5 M Heights, 1No.
17	Shed for Blowers	To be specified
18	HDPE sheet	Thick. 500 micron for all RCC tanks
	<u>EQUIPMENT LIST</u>	
1	Evaporation condensate lifting pump with motors (Condensate + Spentlees)	Type- Self Priming, non clog, centrifugal Capacity- 30 M ³ /hr Head- To be specified MOC-Shaft, Impeller- SS-316, Casing- CS Pump with motors – 1+1 Nos.
2	Lime /Soda ash tank	Capacity-1 M ³ MOC- HDPE, No. 1
3	Lime /Soda ash dosing pumps	Type - Self Priming, non clog, centrifugal Pump capacity - 0-50 LPH MOC - MOC-Shaft, Impeller- SS-304, Casing- CS Pump with motors – 1+1 Nos.
4	Nutrient tank	Capacity-1 M ³ MOC- HDPE, No. 1
5	Nutrient dosing pumps	Type – Electronic diaphragm operated Pump capacity - 0-50 LPH MOC – PP Pump with motors – 1+1 Nos.
6	Air Blower	Type - Twin Lobe Capacity- 1200 M ³ /hr, Pressure 0.5 kg/cm ² MOC – CI

		Nos. 1 + 1
7	Air grid with diffuser membrane	Type- Membrane Capacity- To be specified MOC- EPDM Type -Disc Nos. 1 lot
8	Poly dosing tank	Capacity-0.5 M ³ MOC- HDPE, No. 1
9	Poly dosing pumps	Type – Electronic diaphragm operated Pump capacity - 0-10 LPH MOC – PP Pump with motors – 1+1 Nos.
10	Primary Clarifier Mechanism for AT-1	Capacity - To be specified Type - To be specified MOC - To be specified Gear box & Motor- No. 1
11	Sludge pump for primary clarifier	Type - Self Priming, non clog, centrifugal or screw Pump capacity – 10 M ³ /hr MOC-Shaft, Impeller- SS-304, Casing- CS Pump with motors – 1+1 Nos.
12	Secondary Clarifier Mechanism for AT-2	Size- To be Specified Drive- Centre Drive Gear Box & Motor- 1No. Scraping- MS Epoxy two scrapper arm with neoprene squeegees Make- To be specified Feed well- To be specified
13	Sludge pump for Secondary clarifier	Type- Self Priming, non clog, centrifugal or screw Pump capacity – 10 M ³ /hr MOC-Shaft, Impeller- SS-304, Casing- CS Pump with - 1+1 Nos.
14	UASB digester feed pump	Type- Self Priming, non clog, centrifugal Pump capacity – 30 M ³ /hr Head- To be specified MOC-Shaft, Impeller- SS-304, Casing- CS Pump with motors – 1+1 Nos.
15	Chlorine (Hypo chloride) dosing tank	Capacity-0.5 M ³ MOC- HDPE, 1 No.

16	Chlorine dosing pumps	Type – Electronic diaphragm operated Pump capacity - 0-10 LPH MOC – PP Pump with motors – 1+1 Nos.
17	Filter feed pump	Type- centrifugal Pump capacity - 30 M ³ /hr MOC-Shaft, Impeller- SS-304, Casing- CS Pump with motors – 1+1 Nos.
18	Pressure Sand filter	Capacity- 30 M ³ /hr Size- To be specified MOC- MSEP Piping size- To be specified Media- Graded Sand and Gravels Valve type- Butterfly Valve size- To be specified No. 1
19	Activated Carbon filter	Capacity- 30 M ³ /hr Size- To be Specified MOC- MSEP Piping size- To be specified Media- Supporting media & Activated carbon Valve type- Butterfly Valve size- To be specified No. 1
20	Flare stack	No. 1 Type- Water seal type, manually ignited, MOC-SS-304 or MS with epoxy coated
21	Interconnecting Piping & Fittings	MOC- White CPVC Sch. 40 Accessories- Valves, Flanges, Reducers, Joints, Bends etc. Nos.- To be specified
22	Electrical & Equipments	Control Panel- 1No. Make- To be Specified Energy meter- 1 No. Cabling- To be specified
ULTRA FILTRATION PLANT		
1	UF feed pump	Type - Centrifugal Pump capacity - 30 M ³ /hr MOC-Shaft, Impeller- SS-304, Casing- CI Pump with motors – 1+1 Nos.

2	Basket filter	Capacity- To be specified Size- To be specified Media- 25 micron MOC of housing- SS-304 No. 1
3	Bag filter	Capacity - To be Specified Size - To be Specified Media - To be Specified MOC- SS-304 No. 1
4	UF system	Feed flow - 30 M ³ /hr Product flow – Min. 27 M ³ /hr Recovery – 90-95% Module Type - Hollow fiber or suitable Nos. - To be specified Membrane area - To be Specified Piping - 1 lot MOC - SS and CPVC Auto control valves - To be specified Type - Pneumatically Actuated PRV - To be specified MOC - Cast Steel Skid - To be specified MOC - MS Powder coated No. of units - To be specified
5	CEB 1 Dosing system	Chemical - Caustic & Chlorine Pump capacity – 0-20 LPH Type - Mechanical diaphragm operated Tank capacity (M ³) – 200 Lits. MOC - HDPE No. 1
6	CEB 2 Dosing system	Chemical - Acid Pump capacity – 0-20 LPH Type - Mechanical diaphragm operated Tank capacity (M ³) – 200 Lits. MOC - HDPE No. 1
7	UF Backwash strainer	Capacity - To be specified Size - To be specified Media - To be specified MOC of housing - SS-304 Nos. - To be specified
8	UF backwash pump	Pump capacity – To be specified

		Pump type - Centrifugal MOC-Shaft, Impeller- SS-304 , Casing- CI Pump with motors - 1+1 Nos.
9	Ultra Violet treatment system	To be specified
10	CIP system	Tank - 1 No. Tank capacity (M ³) - To be specified Tank MOC - HDPE Pump capacity (M ³ /hr) - To be specified MOC of Pump -Shaft, Impeller- SS-304 Casing- CI Pump with motors - 1+1 Nos. Micron filter - To be specified MOC of housing – CPVC
11	Treated water pump	Type- centrifugal Pump capacity - 30 M ³ /hr MOC-Shaft, Impeller- SS-304, Casing- CI Pump with motors – 1+1 Nos.
12	Instrumentation and electrical components	Mag flow meter -3 Nos.- To be specified Rota meters -Nos.- To be specified Level switch -Nos.- To be specified Actuated valves -Nos.- To be specified Temperature gauges -Nos.- To be specified Pressure gauges -Nos.- To be specified Sampling valves - Nos.-To be specified Online pH meters -Nos.- To be specified Online ORP meters -Nos.- To be specified Conductivity meter inbuilt in control panel -Nos.- To be specified HPS & LPS -Nos.- To be specified Solenoid valve for Auto flushing -Nos.- To be specified Solenoid valve for Auto Dumping -Nos.- To be specified
13	Control panel	Control Panel - 1 No. Make - To be specified Panel Type - Auto / Manual No. 1

14	Piping	MOC - White CPVC/SS-304 Pressure Rating - 20 Kg/cm ² Nos. - 1 Lot as per requirement
15	Electrical	Electric control panel (Micro processor based) - To be specified Operation - Semi automatic PLC - To be specified Cabling - To be specified Cable Tray - To be specified
16	Plant lightning – LED type	To be specified
17	Motor covers	As per requirement

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2.2 BATTERY LIMITS FOR CONDENSATE POLISHING UNIT

Feed	Evaporation condensate plus spentlees for CPU plant is available at retention tank. If required, cooling arrangement should be done by supplier.
Treated water	To be discharged by the supplier in the treated water holding tank or cooling towers basin of distillery & MEE plant with piping, pump & motor. Supplier also has to specify the quantity and composition of treated water to be generated from CPU plant.
Steam (If required)	Dry saturated steam to be made available by purchaser at inlet of control valve in the condensate polishing unit area at 3.50 kg/cm ² (g) pressure.
Raw water (If required)	Raw water is available at the distillery water storage tank & will be taken by supplier to the CPU plant.
Soft water (If required)	The required quantity of soft water is available at distillery plant soft water tank. Supplier shall bring soft water up to the required section.
Power	Supplier shall provide required length of cable from distillery plant PCC to CPU plant isolation switch of MCC.
Land	Sugar mill will make available required land for Condensate Polishing Unit.
Internal roads, Electrification of site trenches, tree plantation etc.	Sugar mill scope
Chemicals and manpower during commissioning	Sugar mill shall provide all required chemicals and manpower during commissioning of Condensate Polishing Unit. However, the plant supplier shall furnish quantity and quality of such chemicals at the time of quotation and will bear the cost of excess quantity.
Environmental clearance, Consent to Establish, Consent to operate	The necessary environmental clearance, consent to establish and consent to operate for setting up of Condensate polishing unit shall be obtained by Sugar mill.
Electrical inspector / Factory inspector approval	Supplier scope- Govt. fees will be paid by the Sugar mill
Laboratory equipments	Sugar mill scope- Supplier shall supply list of laboratory equipments.

N.B.

1. Sugar mill shall supply information regarding minimum and maximum quantity of condensate plus spentlees, Wet & dry bulb temperature, relative humidity, quality of water, soil strata, soil conditions, water table etc. to the supplier for designing of Condensate polishing unit.
2. Supplier shall indicate the utility requirement at the time of quoting.
3. Performance trial – 15 days

Condensate polishing unit (CPU) for treating the process condensate of raw spentwash evaporation plant and spentlees from distillery plant should be for following parameters: -15 days

- a. Treated condensate generation as output (M³/day)
- b. Treated process condensate characteristics-
 - i) Temperature (°C)
 - ii) BOD & COD (PPM)
 - iii) TDS (PPM)
 - iv) TSS (PPM)
 - v) pH
- c. Consistency of stable plant operation (days)
- d. Chemical consumptions (kg/day)
- e. Power consumption (Kwh/day)
- f. Effluent generation (M³/day)
- g. Performance of bought out items.
- h. Steam required for condensate polishing unit (MT/day)
(If required)
- i. Make-up water for cooling tower (Lits./day) (If required)

Supplier shall design the plant taking into consideration the condensate plus spentlees characteristics and performance parameters.

4. Supply of Technical know-how for operation, operating-cum-maintenance manual (3 Nos.) and training of personnel for smooth operation of Condensate polishing unit shall be done by the supplier.

5. Drawing: The supplier shall supply the following in duplicate at the time of first advance or signing of an agreement whichever is earlier.
- a) Record drawings for the civil and structural work.
 - b) Assembly and erection drawings for the equipments excluding those of patented parts.
 - c) Wiring diagram for the electrical work.
 - d) P & I Diagram
 - e) GA drawing of each equipment
 - f) Specification details

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2.3 Specification of civil and structural work for proposed Condensate polishing unit

The following are to be considered-

- All design will be as per ISI specification and drawings and to be approved by factory /electrical inspectorate /safety inspectorate, weights & measurement inspectorate etc. For this Sugar mill will pay statutory fees. However, the approval has to be obtained by the supplier.
- Safe Bearing Capacity of Soil considered as $20T/M^2$ at 1.2 M depth. If soil SBC changes, then design will be done accordingly. Suppliers are requested to visit the proposed distillery site and collect necessary information regarding safe bearing capacity of soil before submitting the technical offer.
- All civil and structural drawings have to be approved by the inspection agency (VSI).
- Excavated murum only good quality considered for Plinth filling & if any additional filling is required and then the same is to be provided without any extra additional cost.
- The plinth level of condensate polishing unit foundations of all tanks and digester will be at min 0.75 M height above from developed ground level (DGL).
- The base of i.e. bottom of all RCC tanks should be 0.75M above developed ground level (DGL)
- All RCC work should be in M20 grade except RCC tanks (M-25) and reinforcement steel as per suitable design.
- Ground Water Table at 5.0M below GL. If GWT is different, then design will be done accordingly without any additional cost.
- For ground floor flooring of M20 grade (CC1:2:4) as a base concrete is to be made and it's IPS shall be 50 mm of M20 grade (CC1:2:4). Plinth foundation should carry the load of 4 M height wall safely.
- HDPE sheet (500 micron thick) used for RCC tanks to avoid percolation of liquids.
- All M.S. structure considered as per IS 2069 Grade A.

- RCC ring wall foundations to be considered for all the tanks and bitumen concrete (min. 5 % bitumen content)
- One staircase for digester and all RCC tanks
- Staircase – M.S. (grating of 5mm thick) Staircase of 1M wide, 150mm risers and 300 mm treads with a landing at every 3M maximum and rails will be provided on both sides, for digester and RCC tanks.
- The roof of the structures of the plant must be covered totally by pre-coated sheets (Pre-painted galvano loom sheet i.e. PPGL sheets) of 0.5mm thickness.
- Air blowers, Ultra-filtration unit roof should be covered with PPGL sheet. .
- All motors and push buttons are covered.
- For condensate polishing unit section internal and external gutters (constructed in brick masonry over PCC bedding and with cement concrete coping 1:3:6 with plastering) with proper slope should be provided. External gutter distance (length) should be extended up to the sump 50 M away from CPU and gutters covered with MS grating (6mm thick).
- The flooring area of the condensate polishing unit should be in concrete with slope 1:100 towards the internal gutters.
- PLC /MCC with laboratory room –
External & internal plastering & painting in oil bond for Internal & in cement paints for external for rooms. The slab should be water proof & the structure must have 1M parapet wall. The work of brick masonry should be min. in CM 1:6 & plastering in CM 1:4 min. The flooring & skirting should be in vitrified tiles. The plinth should be min. 1 M above DGL & all steps as well as risers must be of polished tiles. Powder coated windows with glass fixing with sliding facility & Plywood door shutter with lamination and glass fixing to doors with necessary fittings & fixtures. Ply cupboard facility for keeping files, glassware's and chemicals. Two chairs and one working table to be provided. The required laboratory working platform will be with antacid tiles, dado & fascia with plumbing & sanitary arrangement to be provided.

Toilet block will be with over head HDPE water tank cap. 1000 Lits. with plumbing & sanitary arrangements.

- Building painting – Oil bond distemper inside and cement colour (Showcem) outside.
- All structure work to be painted by one coat primer and two-coat first grade enamel paints – Berger first grade colour.
- Plant building lighting as per norms & to be provided by supplier as per Electrical inspectorate / factory inspectorate norms.
- LED lights in the plant and where ever required.
- Distance between flameproof and non-flame proof area should be min. 15 M.
- The layout will take into account the working space & safety requirement of Factory Inspectorate, Govt. of Maharashtra State.
- The layout should include –
 - i) The condensate polishing unit shall be 50 M x 50 M area. In this unit there should be sufficient floors for easy access to all parts/segments of the plant & should have proper pre-coated sheets roof.

The layout will take into account the working space & safety requirement of Factory Inspectorate, Govt. of Maharashtra State.

2.4 PROCESS PERFORMANCE PARAMETERS/ GUARANTEE FOR CONDENSATE POLISHING UNIT

A) QUANTITY AND CHARACTERISTICS OF PROCESS EVAPORATION CONDENSATE

Sr. No.	Parameter	Process condensate characteristics
1.	Quantity (M ³ /day)	App. 410
2.	Temperature	50– 55 ⁰ C
3.	pH	2.50 to 4.50
4.	B.O.D. (PPM)	2,500 - 3,500
5.	C.O.D. (PPM)	8,000 - 10,000
6.	Volatile acidity (PPM)	3,500 - 4,500
7.	Total Solids content (TDS), PPM	1000
8.	T.S.S. (PPM)	Nil
9.	NH ₃ -N (PPM)	Nil

B) SPENTLEES QUALITY AND CHARECTRISTICS

Sr. No.	Parameter	Distillery plant spentlees characteristics
1.	Quantity (M ³ /day)	App. 90
2.	Temperature	45-50 ⁰ C
3.	pH	3.00 – 4.50
4.	B.O.D. (PPM)	< 3000
5.	C.O.D. (PPM)	< 6000
6.	TDS (PPM)	< 1000

Process condensate & spentlees reject will be available in retention tank of CPU. Suppliers have to lift this mixed effluent with their pumps and piping and take it to the condensate polishing unit. Based on quality and characteristics given in table A and B above, supplier has to assure and consider the characteristics of the

mixed effluent for designing of the condensate polishing unit. Assumed feed characteristics should be clearly mentioned in the technical offer. If required cooling tower of suitable capacity should also be considered.

A) PERFORMANCE PARAMETERS OF TREATED WATER AT THE OUTLET OF ULTRA FILTRATION (CPU)

Sr. No.	Parameters	Unit	Value
1.	Quantity	M ³ /day	To be specified
2.	Temperature	⁰ C	30
3.	pH		7.00 – 7.50
4.	B.O.D.	PPM	< 30
5.	C.O.D.	PPM	< 85
6.	TDS	PPM	< 300
7.	T.S.S.	PPM	< 5
8.	NH ₃ -N	PPM	To be specified
9.	H ₂ S	PPM	Nil

Treated water should be suitable for dilution of molasses in fermentation section of distillery plant.

2.5 DRAWINGS FROM SUPPLIER FOR CPU

Drawings to be submitted by the supplier along with offer only:-

- a. Drawings for civil & structural work.
- b. Assembly and erection drawings for equipments excl. those of patented parts.
- c. Wiring Diagram for the electrical work.
- d. P & I diagram
- e. Layout drawing
- f. Instrument particulars and drawings

2.6 Makes of various bought out items

SS & MS sheet	- SAIL /Tata /Jindal/Essar/Arcelor Mittal
SS tubes	- Ratnamani/ Divine
GI nut & bolt	- Tata / GKW / as per IS std.
MS channel, beams, angles	- SAIL /Tata /Jindal/Essar /Arcelor Mittal
HDPE pipes	- Hasti/ Nocil
C.S. Pipes	- Tata / Jindal
PHE	- Tranter/Sondex
Screw pump	- Roto/Indo
Sludge pump	- Johnson (SPX)/ Roto/ KSB /Indo
Dosing pump	- Positive/ metering/ Alwn/ Minimax/ Victor
Centrifugal Pumps	- Johnson (SPX)/ Kirloskar/ KSB /Indo
Mechanical seal	- Eagle Burgmall / Indo seal
Molasses pumps	- PSP- Kolhapur /Ravalgaon /Rovar
Motors	- Crompton/Siemens /ABB/ Hindustan
Valves	- Audco /Intervalve /Crane /Aqua / L&T / Expert
(Ball/butterfly/Gate/Globe)	
Control Valves	- Samson /Pneucon /Keystone /MIL/Bray
Cooling tower	- Paharpur /Matangi /Paltech
Air blower & vacuum pump	- PPI / TMVT/IVC
Gear Box	- Radicon /Greaves
Air compressor	- Atlas Copco/ Ingersoll Rand / Kirloskar/ Chicago Pneumatic
Air Filter	- Dyna
Rotameter	- Eureka
Temp. sensors	- Eureka /Radix /Pyro
Pressure Indicator	- H. Guru /Wika /Waaree
Pressure, Temp. level, flow Transmitter-	Emerson /ABB/ Yokogawa
Flow meter (Turbine)	- Toshniwal/Rockwin
PLC	- Allen Bradley /Siemen /ABB /Schneider
PC with monitor printer	- IBM/HP/Compaq
Variable frequency drive	- Hitachi /ABB /Toshiba /L&T / Schneider
Electrical cable	- Finolex /CCI /Polycab
Lighting material (Flame proof)	- Phillips / Crompton Greaves /Victory Luminaries
Instrument Cable	- Polycab /Gemscab
PVC wires	- Polycab /Finolex
MCCB/ELCB/RCBO/MCB	- L&T /Siemens /Legrand
Power Contactors	- L&T /Siemens
Plug and socket dB-	- L&T /Siemens /Legrand
Digital meters (Kwh.VIF)	- Conserve /L&T /Phasetrack (MSEDCL approved)
Indicating Lamp (LED Type)	- Teknic /Atlos /Siemens
Push Buttons	- L&T /Siemens
Cable Gland	- Comet /Dowell /HMI
Lugs	- Dowell /Jaison
PVC conduit & accessories (HD)	- Diamond /Modi /Precision
Selector Switch	- Kaycee /L&T /Siemens

Makes of Civil Materials

Sr. No.	Materials	Makes
1	Cement (53 Grade)	ACC/ L & T/ Birla Super
2	Reinforced steel (TOR)	Tisco/ Rajuri/ Mahavir
3	Structural steel (MS)	Tisco/ SAIL
4	Pre-coated sheets (PPGL)	Metacolour/ Bhushan/ Uttam
5	Paints	
a)	Cement paint	Snowcem/ Topcem/ Surfaced
b)	Oil bound distemper	Asian/ Berger/ Nerolac
c)	Oil paint (Synthetic Enamel)	Asian/ Berger/ Nerolac
d)	Exterior paint	Apex
6	Tiles	
a)	Vitrified	Jonson/ Marbonite
b)	Ceramic	Kajaria/ Bell

* Supplier will submit & get approval of makes from sugar factory/its inspection agency (VSI, Pune).

SECTION III – COMMERCIAL FORMAT

3.1 DECLARATION

3.2 PRICE BID

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3.1 DECLARATION

(To be submitted on Tenderers letterhead)

**To,
The Managing Director,
Mula Sahakari Sakhar Karkhana Ltd,
Sonai,
Tal. Newasa, Dist. Ahmednagar.**

PRICE –

Ref.: - Tender No.

Date: -----/-----/ 2020

This has reference to your Tender Notice. Accordingly, we are submitting our offer. I/We declare that I/We have gone through and carefully examined the scope of supply, terms & conditions, technical specifications and other details enclosed with this agreement. We hereby confirm that the scope of supply & the other technical details of our offer confirm strictly considering technical specifications. We have enclosed all Technical details, Drawings & other information as required in your requisition.

Signature of the representative of the
Plant & Machinery Suppliers (Tenderer)
with Company rubber stamp

Name & Address of the Tenderer-

Note – If your bid is incomplete with respect to Documents requirement, Technical information, Drawings & specific information, which are called for in specifications, it will be liable for rejection.

3.2 PRICE BID

1) Condensate polishing unit -

DESCRIPTION	PRICE BIFURCATION					
Design, manufacture, procure & supply. Erection & commissioning of Condensate polishing unit for 550 M ³ /day Process condensate and spentlees feed. Specified as per battery limits including. a) Instrumentation b) Electrical c) Utilities for above d) Structural work	Basic (Ex-Sellers or their Sub-Contractors Workshop or place of supply) price of plant and machinery according to specifications and details given in Section II-2.1 including transport & insurance charges	Price of Necessary Facilities for above	Erection, commissioning and trial run and supervision thereof	Other	Civil & Structural work	Grand Total
(Please quote separately for each item otherwise tender will be considered as incomplete & will be disqualified)						

Please specify the following:-

- 3.2.1 Plant erection & mechanical completion period / Commissioning period / Stabilization period
- 3.2.2 Performance guarantee
- 3.2.3 Excise Modvat: Y/N

Note: - Please quote separately for every job. Taxes/Duties will be extra as applicable.

AUTHORISED SIGNATORY
WITH CO. RUBBER STAMP
DATE -

Please do not write 'If applicable' - Amount to be filled.

SECTION - IV

4.1 SPECIMEN AGREEMENT

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4.1 SPECIMEN AGREEMENT

THIS AGREEMENT made at ----- on -----
BETWEEN **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar (M.S.)** (a Society registered under the Co-operative Societies Act 1960) (as a Purchaser) which expression shall unless repugnant to the subject or context includes their legal representatives, administrators, successors or assigns represented by Mr./Mrs. ----- Chairman and Mr./Mrs. -----, Managing Director of -----

AND

M/s. ----- a Company registered under the Companies Act 1956 having its registered office at ----- (Hereinafter referred to as the Seller) which expressions shall, unless repugnant to the subject or context including their legal representatives, administrators, successors or assigns – represented by ----- (General Manager) of -----
----- other part.

1.0 WHEREAS

- 1.1 The Seller has for many years engaged in and have got vast experience in the manufacture, supply, erection, commissioning and supervision of condensate polishing unit. Inlet process condensate volume will be 550 M³/ day.
- 1.2 The Seller has acquired and are in possession of secret, know how relating to the designing, engineering, erection, equipping commissioning and operating of condensate polishing unit.
- 1.3 The Seller has collaboration with M/s. ----- for the said system, which is permitted by the Government of India and this Collaboration is still in existence or know-how or patent based on proven technology has been taken from.
- 1.4 The purchaser is desirous of acquiring the said Condensate polishing unit. The purchasers have floated tender giving the

specifications of the Plant and Machinery and after receiving the tenders from all the parties, the same have discussed and modified in the Sugar mill management meeting held on ----/----/2020. As per the modified tender, the Sugar mill management meeting held on ----/--/-----/2020 recommended to the purchaser to place order on M/s. ----- i.e. the Sellers hereinabove. The Purchaser and Seller has agreed to the terms and conditions appearing hereinafter and the Seller has agreed to supply, erect and commission the plant and machinery as per the specifications enlisted in the Section II-2.1 to this agreement.

1.5 And whereas the contract price hereafter mentioned is based on the Sellers' undertaking to make ready for the commercial use of Condensate polishing unit (6 months) from the effective date of this agreement. TIME BEING THE ESSENCE OF THE CONTRACT.

1.6 In the event of failure to complete the plant within stipulated period, the seller shall pay penalty to the purchaser under the clause "Penalties" of this agreement as hereinafter provided.

1.7 And whereas the contract price hereafter mentioned is based on the supply by tender of the Condensate polishing unit considering overall efficiency of the Plant. The details of the performance parameters for these units are provided in Section II-2.4.

If the Seller fails to give guaranteed performance, as hereinafter specified, the seller shall pay the penalty /liquidated damages to the purchaser as hereafter referred.

1.8 The Purchaser hereby appoints the Seller for designing, preparing, manufacturing, insuring, supplying, erecting, commissioning and supervising the said plant and such other matters connected therewith referred to herein. The scope of services and supplies to be provided by the Seller is elaborated in Article 3.0 of this agreement. The responsibilities of the Purchaser to enable the Sellers to discharge his services as set in Article 7.0 of this agreement. The Sellers shall prepare PERT diagram showing the schedule of work in consultation with the Sugar mill to enable the

purchaser to discharge its and /or his inspection agency duty as mentioned in Article 5.5 of this agreement.

1.9 The Sellers hereby accept to provide the aforesaid services at as stated in Section II of this agreement.

2.0 DEFINITION:

2.1 "Site" shall mean the location at **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar (M.S.)**.

2.2 "Plant" shall mean the Machinery and equipments as – specified in Section II-2.1 forming part of this agreement and include the commercial plant to be designed, procured, constructed, manufactured, supplied, erected, commissioned and supervised by the Sellers having an initial design, capacity for Condensate polishing unit with guaranteed performance as specified in Section II-2.4.

2.3 "Technical know-how and Information" shall mean and include all technical facts, physical data in which the know-how, drawings and documents which the Seller employed in the ordinary course relating to the construction, erection and operation of the said plant material used therein procedures and techniques used in the plant owned by the seller and repairs and maintenance manual shall be supplied to the Purchaser.

2.4 "Contract Price" shall mean the price defined in Article IV-4.

2.5 "The Seller" shall mean M/s. ----- who will carry out design, detailed engineering, manufacturing, erection and commissioning of the plant together with the supplies, as stated in Section IV -3.0 of this agreement.

2.6 "The Battery Limits" shall mean the area of plant as specified in Section II-2.2.

3.0 SCOPE OF SUPPLY & SERVICES OF SELLERS FOR CPU

3.1 Condensate polishing unit -

The Sellers shall design, procure, manufacture, ensure, supply, erect, commission and do the supervision on erection and commissioning of the complete new Condensate polishing unit detailed in Section II-2.1 and forming part of this agreement in conformity with the specifications including clarifications and elucidations laid down therein and according to the Progressive delivery and erection schedules to be drawn up by the Seller and to be approved by the Purchaser and their authorized Inspection Agency, so that the plant shall be ready for commissioning and commercial production within the time provided in Clause 1.5 of the agreement. The capacity, efficiency and performance of the Plant shall be as per Section II of CPU 2.1, 2.2, 2.3 & 2.4.

3.2 The Sellers scope of work -

3.2.1 The scope of supply of seller should include the necessary equipments, Plant and Machinery to meet the Purchaser's requirements, Complete with packing and forwarding charges, transportation to Purchaser's project site, transit-cum-storage insurance charges, GST and other Government levies and erection, supervision and commissioning charges. This also includes other tools and tackles required for the fabrication at site, adequate skilled and experienced manpower quite conversant to the fabrication and erection work of such Plant and Machinery. All foundation bolts, foundation wedges, foundation packings, liners etc. are also to be included in the supply.

Preparation of drawings including foundation and other civil drawings are to be got approved by Seller well in advance. The supply of engineering detailed drawings of each and every part of the plant and machinery should be submitted well in advance for prior examination and approval thereof.

All the consumables required for erection and commissioning like gas cylinders, gas cutters, all types of welding /brazing or

soldering rods, emery papers, grinding paste, hold-lights, graphite, kerosene, oil, Rustburg, back joints, steam packings, etc. are also to be included in the supply.

All types of tools and tackles like hoisting tools, chain blocks, pulleys, wire ropes, Hook chukes etc. to be arranged at Seller's cost.

All staff including engineering, technicians, skilled /unskilled workers, Khalashis required for loading and unloading, fabrication, erection and commissioning are to be adopted by Seller.

The machinery arrived at site should be properly stored at site. Seller shall also arrange the transportation of machinery and equipments from stored place to their respective positions.

Electricity and water required for site fabrication and construction will be supplied at extra cost; however, water required for trials will be supplied free of cost. Supplier shall arrange the pumps and piping for lifting of water from Sugar mill reservoir.

Copies of the drawings showing the ground plan of the existing sugar factory and proposed layout of the Condensate polishing unit shall be made available by Seller for guidance / reference.

The tenderers are requested to depute their technical representative to the factory site to make spot inspection before submission of their offer. The tenderer will also acquaint himself with the local conditions at the factory site, know the State /Central Governments Laws/Acts and Rules regarding Condensate polishing unit in connection with the supply, erection and commissioning.

3.2.2 Seller's scope of work shall also include –

3.2.2.1 Painting - General and as per Central & Excise rule, if any.

3.2.2.2 Railing and staircase wherever required as per the factory Act.

3.2.2.3 Insulation, lagging with aluminium cladding wherever necessary, Earthing, lightening arrester, flameproof connections/lighting arrangement as per the rules in Condensate polishing unit.

3.2.2.4 All design with respect to civil, structural, tank foundations etc. should follow the standard code practice for earth quake resistant viz. as per IS 1893.

3.2.2.5 Condensate polishing unit performance-

All the plant & machinery & its accessories should be guaranteed for a period of 12 months from the date of commissioning for material, workmanship & performance.

Plant & machinery and its accessories should be of first class quality as per standard specifications. Any material found defective during the Guarantee period shall be replaced by the Seller free of cost.

The capacity and efficiency of the plant shall be deemed to be fulfilled if (i) within not less than two months from the start of the plant operations or any fifteen-consecutive full working days, the capacities and efficiencies, as stipulated in Section II-2.1, 2.4 & below given parameters are achieved on every day of the said 15 consecutive days after stabilization.

Performance parameter for Condensate polishing unit

Condensate polishing unit (CPU) for treating the process condensate of raw spentwash evaporation plant and spentlees from distillery plant should be for following parameters: -15 days

- a. Treated condensate generation as output (M³/day)
- b. Treated process condensate characteristics-
 - i) Temperature (°C)
 - ii) BOD & COD (PPM)
 - iii) TDS (PPM)
 - iv) TSS (PPM)
 - v) pH
- c. Consistency of stable plant operation (Days)
- d. Chemical consumptions (kg/day)
- e. Power consumption (Kwh/day)
- f. Effluent generation (M³/day)

- g. Performance of bought out items.
- h. Steam required for condensate polishing unit (MT/day)
(If required)
- i. Make-up water for Cooling tower (Lits./day) (If required)

The maker of the main units to be supplied by the Seller to the Purchaser shall be one out of the makes specified by the Purchaser.

4.0 CONTRACT PRICE

4.1 The Sellers agree to design, procure, manufacture and supply, erect and commissioning and to do the supervision of the plant and machinery of the CPU section II – 2.1, 2.2, 2.3 & 2.4 and forming part of this agreement at a Total price of Rs -----/- (Rupees -----/-) hereinafter referred to as the “Contract Price” subject to terms and conditions as hereinafter provided as per the break-up given below in PART- I.

Sr. No.	Particulars	Rs. Lakh
i)	Basic (Ex-Sellers or their Sub-Contractors Workshop or place of supply) price of plant and machinery according to specifications and details given in Section II-2.1 & including transport & insurance charges.	
ii)	Price of Necessary Facilities in respect of 4.1 (i) Above	
iii)	Erection, commissioning and trial run and supervision thereof	
iv)	Other	
v)	Total	
vi)	Civil & Structural work	
vii)	Grand Total	

4.2 The total contract price offered at 4.1 (vii) above is exclusive of the total amount in respect of Goods & Service Tax (GST), Customs Duty on imported unit /equipment, local taxes and any other taxes or duties and

Octroi at the site only imposed by law leviable on the plant and machinery supplied to the Purchaser. The total price offered is also exclusive of single point GST and octroi on finished bought out items supplied directly to site from Sub-contractors works. The taxes and duties applicable are as follows: -

PART- II

Name of Tax	Rate of Tax	Amount of Tax
Total price for plant & machinery will be: Rs. (4.1 + 4.2)		

The increase or decrease in the amount of taxes and duties due to changes in the rates /structure in the taxes & duties will be on Purchaser's Account provided the material is supplied as per delivery/dispatch schedule (refer Article 4.3).

4.3 Income Tax

Income Tax, if applicable, will be deducted at source, while releasing the payment against R.A.-Bill /Total Bill.

4.4 Changes in Tax structure:-

Any change in the GST structure will be in the scope of seller and change in the GST structure in respect of Part-I shall not be entertained by the purchaser as contract price is fix and firm.

4.6 The price is fixed & firmed till the completion of work and performance trial. No escalation paid on account of any reason.

4.7 Delivery period:-

Tenderer has to adhere to the period stipulated for delivery completion of work in all respect very strictly. Design, supply, erection, construction and mechanical & water commissioning of the plant & machinery should be completed within **six months** from the date of signing the agreement. CPU should be commissioned & stabilized within **15 days period** & performance guarantee runs should be jointly conducted for **15 days period** after stabilization of the plant.

Liquidated damages for late delivery shall be @ 2 % of contract price per fortnight up to a maximum 10 % the total contract price.

5.0 RESPONSIBILITIES OF THE SELLER

- 5.1 The Seller, shall design, procure, manufacture, ensure supply, erect, commission and do the supervision of erection and commissioning of the plant(s) as detailed in Section II-2.1 in conformity with the specifications laid down therein and according to the progress in delivery and erection schedules to be drawn up by the Seller and to be approved by the Purchaser and their inspection agencies so that the plant (s) shall be ready for commissioning and commercial production within the time provided in Article 3 – 3.1 of this agreement.
- 5.2 While preparing the delivery schedule, the sellers shall ensure that the machinery and equipment shall be delivered in sequence of priority for erection so that the items which should be erected first as per the erection schedule shall be sent first and with the same order of priority the progress of delivery shall be maintained thereafter accordingly. The said monthly delivery schedule shall also indicate the equipment wise breakup prices of the major equipments. The delivery schedule shall be approved by purchaser /his inspection agency.
- 5.3 The seller agree to prepare and make available to the Purchaser within two weeks from the effective date of the agreement preferential list of bought-out items, shop fabricated and site fabricated items of the plant and machinery equipments and accessories including the controlling instruments which would be required for erection, commissioning and operation of the said plant as more particularly specified in Section II-2.1 to this agreement together with respective specifications and process thereon.
- 5.4 Not more than 15 days from the effective date of this agreement, the seller shall provide to the purchaser four sets drawings of layout plant & machinery foundation, structured work, piping diagram and electrical diagram with detailed project schedule. This will be followed by monthly progress reports on 10th day of each month -progress of activities listed on

detailed project schedule and revision in schedule arising out of protracted activities. The project Incharge shall submit the copies of the progress report to the Managing Director of the Sugar mill and Inspecting agency **Vasantdada Sugar Institute, Pune** shall certify the actual progress report. The drawing shall be submitted to the purchaser and /or its inspection agency for approval and the purchaser has every right to scrutinize and modify the drawings.

- 5.5 The seller shall furnish within two weeks of signing of this agreement, a tentative PERT /Composite bar chart composting seller scope of work /activities. This chart shall be finalized with mutual consultation between seller and purchaser and / or its inspection agency.
- 5.6 The seller shall depute their representatives on site to take the delivery of the machinery and equipments who shall be fully responsible for handling unloading, transport and proper storage. The deliveries of material shall be accompanied with clear details packing lists in triplicate mentioning therein gross weight of the packages as well as net weight of the concerned equipment. Store Officer and Engineer of the Seller shall record the details of delivered material in a joint register.
- 5.7 The purchaser shall provide the necessary godown facilities. However, supplier shall be responsible for use of godown at his own security.
- 5.8 Seller or his subcontractors shall ensure that the design features and quality of workmanship of plant and machinery shall be strictly as per the Section II-2.1 and Standard Engineering practices. The purchase shall have the right to appoint Sugar mill person/inspection agency to visit place of manufacture assembly or machinery and at purchaser site and to inspect the same. The Seller and their sub-contractors shall offer the plant and machinery for inspection during course of manufacture as well as before dispatch. The seller shall give at least 10 days clear notice by phone /fax /email followed by confirmation letter to the purchaser and inspection agency for inspection before dispatch of equipment to site. If within 15 days the inspection does not take place, the machinery and equipments will be dispatched in inspection waiver letter shall be issued by the purchaser /inspection agency. Such equipments/materials will be inspected

at site provided inspection waiver letter is given by purchaser/inspection agency.

The seller shall prepare the list of equipments, materials to be inspected in consultation with purchaser and inspection agency. The purchaser or their inspection agency shall have the right to reject any material or assemblies or sub-assemblies if these are not of the specified quality and workmanship on the ground that they cannot be rectified.

The purchaser or inspection agency shall within their rights bring to the notice of the seller any deviation observed from the specifications as per Annexure or standard engineering practices and the seller shall be required to rectify such defects and deviations if any out of their own cost, such inspection by the purchaser and/or inspection agency shall not absolve the seller for his responsibility of supply in the plant and machinery in accordance with the annexure and terms and conditions of this agreement.

The Seller shall provide free of cost of necessary facility to the purchaser and/or its inspection agency for proper inspection and testing of the equipments at sellers' or their sub-contractors' work or at proposed plant site.

The assemblies or sub-assemblies /equipments not accepted by the purchaser and/or inspection agency if have been rectified or altered, such parts /equipments assemblies or sub-assemblies shall be segregated for separate inspection and approval before being incorporated in the plant and machinery.

The purchaser and /or their inspection agency shall have the right to give their inspection mark on all items inspected by them. Under no circumstances the seller shall absolve from the responsibilities of inspection unless waived by the purchaser.

- 5.9 The seller hereby agrees to take out excess material goods brought at site with the prior written permission of the purchaser only after successful commissioning of Plant & Machinery. However, the seller shall refund the taxes & duties paid by purchaser on such excess material.

- 5.10 The seller hereby agrees to give necessary instruction to the erection contractors for proper and satisfactory erection. Further, the seller shall also give detailed commissioning instructions to the erection contractors so that the plant is commissioned to purchaser's satisfaction after which the performance trial can be taken up as provided in article 6.0.
- 5.11 Seller shall provide first filling of the oils and lubricants wherever necessary.
- 5.12 Seller shall ensure that all pipelines shall be provided with flanges at length not exceeding 6 meters to facilitate easy dismantling wherever cleaning is necessitated. Good quality jointing shall be made on all flanges points to commensurate with pressure temperature and characteristics of the material to be handled.
- 5.13 INSURANCE
The seller shall be responsible at their own cost for comprehensive risk insurance including transit-cum-storage-cum-erection commissioning insurance of all machinery and equipments and other consumables directly dispatched to the purchasers plants site from the respective places of manufacture. The insurance policies in respect thereof shall be arranged by the seller and kept in full force and effective until commissioning. The seller shall supply replacement of machinery and equipments goods or parts lost or damaged in transit, during storage or during erection and commissioning, free of cost at the site of the purchaser within the time so as to adhere to the date of commissioning mentioned in this agreement. The purchaser will be absolved from any responsibility or liabilities arise on account of accident.
- 5.14 All freight, cost charges, wharf age and demurrage shall be borne by the seller.
- 5.15 During and until commissioning and operation of the plant, the seller shall be fully responsible for any losses or damages to their persons and property resulting from any cause whatsoever connected with the erection and operation of the work and the seller shall provide the insurance at their own cost for the chief erector and their assistants and erection workmen deputed for the erection, for death or bodily injury suffered by the staff

members or erection workmen or other staff members personally deputed by them for the purpose of erection and commissioning. In the event if the purchaser is obliged and required to pay any compensation to a workman employed by the seller or by any of their sub-contractors in the execution of the work, the seller shall reimburse to the purchaser the compensation so paid without prejudice to the rights of the purchaser.

5.16 To expedite the erection work, seller, may bring on site, certain materials more than actually required for completion of the work as per this agreement. Such materials if found surplus after the completion of the erection, shall be taken by them with prior approval of the purchaser. Any material including the tools and tackles, etc., brought by the seller at the site and not paid by the purchaser can be taken out by the seller after the purchaser's approval.

5.17 Foreign exchange -

The supplier shall arrange any foreign exchange required for import of raw material or the seller shall arrange equipments. Non-availability of foreign exchange shall not entitle the seller any extension of time for commissioning of the plant.

5.18 Approvals & Consents-

The supplier shall obtain the necessary approvals/ consents, from State Excise, Central Excise, factory & electrical inspector, other authorities as per the statutory requirement in respect of plant to be supplied /erected by the supplier. Sugar mill will pay necessary officials fees & issue letters/applications.

6.0 TRIALS AND TAKEOVER:-

6.1 As soon as the plant is ready for commissioning after completion of the supply of plant and machinery, the seller shall notify in writing to the purchaser specifying the date at least 30 days before the seller intend to carry out the trials to enable the purchaser to arrange for water /fuels, chemicals, operational staff and workmen and other facilities. Unless otherwise agreed to by the purchaser and seller, the sellers shall begin the said trials on the date and time so notified.

PROVIDED THAT the water trials shall be conducted by the seller for a period of a week before commissioning of the plant and machinery after completing delivery and erection to the entire satisfaction of purchaser. After water trial, the steam trial has been completed to the entire satisfaction of purchaser. The seller shall issue a certificate to the purchaser that they have supplied the plant as per Section II-2.1 to this agreement, at the Contract price mentioned in clause 4.0 hereinabove. The said certificate should indicate price breakup as per clause 9.0. The amount will be released as per clause 9.0 of this agreement.

- 6.2 After the said, plant trials have been completed to the entire satisfaction of the purchaser and on their furnishing a certificate to the effect that all the plant and machinery mentioned in Section II-2.1 shall be taken over mechanically by the purchaser.
- 6.3 The performance trials under article 6.4 will be conducted in the presence of authorized representative of -
- a) Representative of purchaser
 - b) Representative of seller
 - c) Representative of the Director General, Vasantdada Sugar Institute, Manjari (Bk), Pune.
 - d) Representative of the Commissioner of Sugar, Maharashtra State
- The performance parameters should be achieved on every day of 15 consecutive full working days for CPU plant.** This should be fulfilled within not less than three months from start of the plant operation.
- 6.4 The seller shall give performance trial to the satisfaction of the Committee constituted as per article 6.3 and the committee should minute the proceedings of their observations indicating clearly whether the performance parameters have been achieved or otherwise. If required the committee may give one more chance to seller for performance trial to be given within a period of one month. After this trial, the committee shall direct future course of action to be taken by Purchaser as per this agreement.
- 6.5 If the purchaser fail to make necessary arrangements including the supply of evaporation process condensate and spentlees for CPU within 180 days

after the scheduled date of commissioning, the plant will be deemed to have been taken over by the purchaser and the trial performance guarantee will lapse automatically and the trial will be presumed to have been performed in accordance with the standards laid down in the agreement.

7.0 Purchaser's Responsibility

- 7.1 The purchase shall pay the statutory inspection and other fees and charges payable under the terms of any act or regulations in respect of the installation, operation or use of machinery and equipments. But follow-up work is to be done and approval is to be obtained by seller at their cost.
- 7.2 The purchaser shall provide free of cost to the seller or their sub-contractors suitable new godown for storage of the equipments, tools and tackles etc. in the premises of work for the erection, installation and commissioning work.
- 7.3 If required, available workshop facility will be provided at extra cost without disturbing the routine maintenance work for erection work and not for fabrication work.
- 7.4 The purchaser shall provide to the contractor electrical power at 440 volts, three phase 50 cycles, 100 HP load at one point for erection within one month from the date of signing of the agreement. Power consumed by the seller or their sub-contractors shall be chargeable for which a separate energy meter will be fitted by seller.
- 7.5 The purchaser shall provide at their cost for trial run to the seller and or their sub-contractors adequate water supply at sugar mill site.
- 7.6 The purchaser shall provide at his cost adequate technical staff and labour including skilled and unskilled during steam and water trails and commissioning and operating the plant and machinery.
- 7.7 The purchaser agreed to assist the seller's requirement of steel under the prevailing SAIL scheme for priority allotment required for machinery and equipments to be supplied under this agreement but the responsibility of getting the required steel quantities shall be sellers alone. The inability on the part of the seller to procure supplies of Stainless steel, mild steel, D.O. Copper, brass, etc. will not absolve or release in any way the seller & seller

will not be entitled to claim any compensation or any extension of time for that reason.

8.0 Patents, Copyright, Secrecy, Force-Major

Patent & Copyright:

8.1 The seller shall hold and save the purchaser their officers, agents, servants and employees harmless from liability of any nature or kind including the costs and expenses for or on account of breach of any copyright or invention or secret process patented or unpatented, articles manufactured or use in the performance of this contract including their use by the purchaser, unless otherwise specifically stipulated in this agreement. In the event of any claims so demand being made or an action being brought against the purchasers for infringement of the patent the seller will indemnify the purchaser against such claims or demand and all costs and expenses arising from or incurred by reason or such claim or demand.

8.2 Provided that the purchaser shall notify in writing to the seller immediately if any claim is made and that they shall be at liberty if they so desire with the assistance of the purchaser if required, but at the seller own cost, charges and expenses to conduct all negotiations for settlement of the same or any litigation that may arise there from and provided that in such motion or thing shall be used by the purchaser for any purpose or in any manner other than that for which they have been supplied by the seller as specified in this agreement.

8.3 Secrecy:

Any data, information, design, drawing, process know-how and other such documentation pertaining to design, manufacture, or plant and machinery being suggested by the seller under this agreement which the seller may discuss and / or elaborate and / or handover to the purchaser from time to time are of proprietary nature and shall be kept confidential by the purchaser.

The purchaser shall not disclose information on design drawing, process know-how and such documentation to any other third party nor use it for any other purpose other than its intended use without prior written permission from the seller.

8.4 Force Majeure:

The right of the seller to proceed with the work shall not be terminated as provided in this agreement, because of any delay in completion of the work due to unforeseen cause beyond the control and without the fault or negligence of the seller or sub-contractors including act of God or public action, Government in its sovereign capacity, floods, epidemics, quarantine, civil commotion and riots. In the event of any of the afore-said contingencies unusual or extraordinarily prolonged the purchaser shall be promptly informed by the seller by telegram/telex followed by confirmation in writing with documentary proofs within 7 days of the commencement and completion of force-Majeure circumstances. The seller for purchaser's information shall submit a list of sub-contractors to the purchaser. The force Majeure clause shall also be applicable to sub-contractors.

8.5 The seller shall not transfer their right and obligations arising out of or in relation to this agreement except with consent in writing from the purchaser.

9.0 TERMS OF PAYMENTS & BANK GUARANTEE

The Purchaser shall pay the Contract Price in the following manner:

9.1 10 % (Ten percent) advance of the contract price for plant and necessary facilities contained in Section III- 3.2 only of this agreement i.e. Rs. -----
-----/- (Rupees-----/-) within 15 (fifteen) days of signing of this agreement, on furnishing of Bank Guarantee by the seller for the said advance in the form annexed to this agreement.

After receipt of advance of 10 %, the seller should submit to the **Purchaser and the Inspection agency** the following within 15 (fifteen) days for approval:

- a. Billing schedule/price break-up and erection schedule
- b. Layout of plant & machinery
- c. Bar chart indicating activities
- d. Dispatch schedule

9.2 5 % (Five percent) advance of the contract price for plant and necessary facilities contained in Section III- 3.2 only of this agreement i.e. Rs. -----

-----/- (Rupees-----/-) shall be paid to the seller within 15 days, on furnishing bank guarantee by the seller for the said advance in the form annexed to this agreement

After receipt of advance of 5 %, the seller should submit to the **Purchaser and the Inspection agency** the following within 15 (fifteen) days for approval:

- a. Piping, electrical and instruments particulars and drawings.
- b. List of detailed specifications of bought out items
- c. Utilization certificate of advance.
- d. GA Drawings
- e. Civil & Structural drawings

9.3 65 % (Sixty five percent) of the price referred to above for plant machinery i.e. Rs. -----/- (Rupees -----/-) and the reimbursement of actual amount of GST, octroi, (custom duty on imported goods, if any) on documentary evidence, after the receipt of material at site and approval of the same. The advance paid under clause 9.1 & 9.2 (i.e. 15%) will be adjusted in this amount. The bank guarantees for advance will be returned to supplier after satisfactory commissioning of Condensate polishing unit.

In case of items are fabricated at site etc. proportionate amount of the bill value will be paid only after completion of fabrication work at site.

In case of bought out items etc. proportionate amount of the bill of individual item will be paid after receipt of total material and assembling all parts at site like pumps & motors, MCC, PLC, instrumentations, MS/SS plates etc.

Submission of bills and payments:

- a. All the details of GST paid by the supplier shall be shown separately for own manufactured items and for bought out items & to be submitted to the purchaser along with bills by supplier for the reimbursement of the same.
- b. The amount shown in supplier's bill for payment of all such GST will be computed on the basis of all such relevant statutory provisions in

force on the date of dispatch and shall the supplier pay the actual amount as.

c. The payment shall be released by the purchaser within ten days from the date of submission of approved bills.

9.4 10 % against erection of plant & machinery and after Mechanical & Hydraulic trials certified by the purchaser or its inspection agency.

9.5 10 % after successful commissioning and performance trial of 15 days for Condensate polishing unit against performance security deposit of 10 % valid for 12 months from the date of successful performance trial.

(For more details please refer the draft agreement)

10.0 PENALTIES

If the seller fails to commission and ensure commissioning of plant within the stipulated time fixed or fail to give satisfactory performance of the plant as per the performance guaranteed herein agreement, the seller shall pay liquidated damages as specified below :-

10.1 Condensate polishing unit

The following penalties will apply individually & separately for above unit.

10.1.1 Delayed Commissioning: -
5 % of the contract price shall be deducted for delayed commissioning every fortnight from scheduled programme, maximum up to 10 % of the contract price.

10.1.2 Liquidated damages for failure of guaranteed performance.

10.1.2.1 Rs. 5.0 Lakh shall be deducted from the contract price for every 100 unit drop in final COD & BOD value than the guaranteed figures.

10.1.2.2 Steam consumption (If applicable)-
Rs. 5.0 Lakh shall be deducted for every 0.5 MT/hr increase in steam consumption at any stage than guaranteed figures subject to a maximum 10 % of the contract price of the plant (if applicable).

10.1.2.3 Power consumption and chemical requirement -

Rs. 5.0 Lakh shall be deducted for every 25 kwh increase in power consumption at any stage than guaranteed figures for CPU subject to a maximum 10 % of the contract price for plant.

10.1.2.4 In the unlikely event if the technical know-how and the plant and machinery mentioned in section II –2.1of this agreement does not work up to the performance limits mentioned in the annexure and if the specified quality of produce is not obtained, then the seller shall reimburse all the sum of money paid by the purchaser to the seller with 24 % interest along with other expenses including civil work & other items in respect of this project.

The seller may be entitled to take back at his own cost all plant and machinery, accessories and other items brought by him. In case the seller is new entrant in this field or the technology is now, then the seller shall give the purchaser bank guarantee for the entire total price of the plant.

11.0 ARBITRATION, NEGLIGENCE, TRANSFERABILITY, PACKING, EXCESS MATERIAL

11.1 ARBITRATION

If at any time, any question, dispute or difference, whatsoever, shall arise between the seller & purchaser arising out of or in connection with the stipulation of this contract except those which are expressly hereinafter excluded from the ambit of arbitration, the parties hereto shall use their best efforts to settle such question, dispute or difference amicably by mutual negotiations should the contract not be reached in respect therewith, either party may be giving to the other a notice in writing of the existence of such question, dispute or differences refer the same for Arbitration

Proceedings as per the provision of Arbitration Act 1940 and the rules there under inclusive of any modification or replacement thereof. Venue of Arbitration will be at **Newasa, Dist. Ahmednagar (Maharashtra state)**

11.2 Jurisdiction: All court proceeding shall subject to jurisdiction of the **Newasa, Dist. Ahmednagar** and that they shall have jurisdiction to try all disputes and matters arising out of and under the agreement.

11.3 Negligence of the seller:

If the seller shall neglect to manufacture or supply the plant and machinery or to erect and commission the same or to dismantle, modify strengthen, re-erect and commissioning the existing equipment or the dismantle and shift outside the factory building, the existing equipment to be discarded with due diligence and expedition or refuse or neglect to comply with any reasonable orders given to them in writing by the purchaser in connection therewith, the purchasers may give notice in writing to the sellers to make good within a reasonable specified time, the failure neglect or contravention complained and .if the seller still without reasonable cause fail to comply with the notice (to be reckoned from the date of receipt of notice by the sellers), the purchaser may take over the work of manufacture, supply, erection, dismantling and re-erection of existing machinery or commissioning of equipments as a whole or in part out of ." the sellers hand/or may give it to another person on contract at a reasonable price and entitled to recovery any excess cost thus incurred by the purchasers or make it good from any bills or dues of the sellers pertaining to this agreement or recover such amount from the seller.

11.4 **TRANSFERABILITY OF THE CONTRACT:**

The seller shall not transfer their right and obligations arising out of or in relation to this agreement except with the consent in writing to the purchaser.

11.5 **PACKING MATERIAL:**

Since the cost of packing material will be borne. By the purchaser, all containers (including packing cases, boxes, tins drums and wrappings, etc.) in which machinery and equipments and stores will be supplied shall be considered non-returnable to the seller.

11.6 **EXCESS MATERIALS:**

To expedite erection work, seller may bring on the site materials such as piping, valves, fittings, consumptions and wires, hardware, insulation

materials, refractory bricks, lubricants, paints, etc., more than actually required for completion of work as per this agreement. The seller, with the prior approval of the purchaser, shall take such material as are found surplus after the completion of erection back. Any materials including tools and tackles etc., brought by the sellers at the site and not paid for by the purchasers can be taken out by the sellers after the purchaser's approval.

12 Maintenance /warranty

12.1 For a period of 12 months from the date of commissioning of plant (called the warranty period) or the seller shall be liable to rectify / replace the plant and machinery or parts thereof, such as may be found to be defective or below the rated capacity under proper use according to seller's written instruction and arising due to faulty design, material workmanship or erection or otherwise. In case may be the purchaser or its inspection agency shall give the seller notice in writing setting out the particulars of the defects or failure and the seller shall thereupon rectify the defective or under-rated equipments or replace the same free of cost to make it comply with the requirement of the Agreement. If the seller fail-to do so within reasonable time the purchaser may rectify and / or replace by giving prior intimation at the cost of the seller the whole or any portion of the equipment, as the case may be which is defective or under-rated or fail to fulfill the requirement of this agreement and, may recover the actual cost thereof from the seller or adjust the same from any balance payment to be made to the seller or by invoking the performance bank guarantee or recover the same by raising the debit note or otherwise.

12.2 In case of such rectification /replacement seller shall be liable to pay all the costs, charge, expenses of such rectifications / replacement done and the defective equipment on being replaced shall be taken away by the seller at its own cost. The purchaser shall have the right to operate any and all equipment after the commissioning date of the plant except that this shall not be considered to permit operation of any equipment which may be

materially damaged by such operation before any required rectification alternation have been carried out.

- 12.3 If it becomes necessary according to the seller to replace or renew any defective part of the machinery under this clause, the provision of warrantee period shall apply to the parts of the plant and machinery so replaced or renewed within of six months from the date of completion until the end of the aforesaid warrantee period of as defined above whichever is later.
- 12.4 The rectification or new parts will be delivered F.O.R. Purchase factory site. The sellers shall also bear the cost of rectification / replacement carried out on their behalf by the purchasers as mentioned above at the site.

13 Miscellaneous provision

13.1 Inspection:

Purchaser or its agency shall make necessary inspection of equipments, machineries, assemblies etc. at the works of supplier or its sub contractor.

Seller or its sub contractors shall offer the plant, machinery and manufacturing activities for inspection fifteen days before dispatch. The visit for inspection will be confirmed by both the parties by clear notice by giving 15 days time if required; supplier shall supply necessary information /drawings for the verification of the details of specification.

- 13.2 Purchaser shall be entitled to bring the notice of seller, any deviation observed from the specification or standard engineering practice and seller at its cost shall rectify the same.
- 13.3 Purchaser shall have the right to give their inspection marks on items inspected by them.

13.4 Improvements & modifications:

During the continuance of this agreement and for period of two years through seller undertake and agrees to provide the purchaser information and technical services including improvement and modification in respect of plant, process to the extent applicable and suitable in and to the said know how and technology for the use and benefit of the purchaser.

Purchaser shall in so far as is free to do improvements & modifications in the plant on its own.

13.5 Training of purchaser's personnel

Seller shall arrange to train the purchaser's all personnel regarding the process, operation and maintenance of the plant being set up under the agreement on its own cost.

13.6 Changes:

- i. Purchaser without invalidating this agreement may order extra work or make changes by adding or deducting from the work, without affecting the cost. All such work shall be executed under terms & conditions of this agreement.
- ii. Except in an emergency endangering life or property, no change shall be made unless authorized in writing by the purchaser.
- iii. If supplier claims that any change requested by purchaser involving extra cost, supplier shall give purchaser written notice thereof, before proceeding to execute the work except in an emergency endangering life or property.

14.0 Purchasers Right

Risk Purchase

- ❖ If the successful tenderer fails to execute the work as per order/schedule & after request of the purchaser, contractor fails to do so, then the purchaser shall be free to execute the work/purchase the required material on the risk & cost of the supplier without his consent.

Cancellation

- Purchaser reserve the right to cancel the contract forthwith upon or anytime after the happening of any of the following events:
- If seller commit a breach of any of the terms and conditions of the tender and fail to remedy such breach within 15 days of issuing of written notice from purchaser in regard thereto or within 7 days of receipt of...
- If seller do not adhere to the instructions which may be issued from time to time after mutual discussions in connection with the manufacture / supply of the material/erection.
- Purchaser's right to so terminate the contract shall be without prejudice to any of purchaser's rights and remedies against seller and in the event of

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purchaser so terminating the contract, purchaser shall not be obliged to pay for any loss or compensation in respect of such termination.

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SECTION - V

**A FORMAT FOR BANK GUARANTEE
(For Advance & Performance)**

DRAFT OF BANK GUARANTEE FOR PERFORMANCE

THIS GUARANTEE MADE THIS _____ day of _____ Rs. _____ by the _____ Bank, having its branch office at _____, (hereinafter called '**The Guarantor**' which expression shall, unless repugnant to the context or contrary to the meaning thereof, include its successors and assignees) of the one part in favour of _____, a Society registered under the Maharashtra State Co-operative Societies Act, 1960 and having its registered office at **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar, Maharashtra State** (hereinafter called '**The Purchaser**' which expression shall, unless repugnant to the context or contrary to the meaning thereof include its successors and assignees) of the other part.

WHEREAS M/s. _____ a company registered under the Indian Companies Act, 1913 having its registered office at _____ and chief place of business at _____ (hereinafter called '**The Seller**' which expression shall unless repugnant to the subject or context include their legal representatives, administrator, successors or permitted assignees) has entered into with the Purchaser an agreement dated _____ (hereinafter called the said **Agreement**) to design, manufacture, procure, supply Machinery and Equipment for the Purchaser's proposed Condensate polishing unit at **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar** in accordance with the terms and conditions therein contained (hereinafter referred to as 'the said Machinery and Equipment').

AND WHEREAS under clause _____ of the said Contract, the Seller are required to furnish to the Purchaser a Bank Guarantee in respect of guaranteed performance of the Machinery and Equipment supplied by the Seller as referred to in clause _____ of the said Contract for Rs. _____ (Rs. _____ only) representing 10 % of the contract price (value of the order) mentioned in the section –IV clause 4 – Contract price & clause 9-Terms of payments & Bank Guarantee.

AND WHEREAS the Guarantor has at the request of the Seller agreed to give the guarantee as hereinafter appearing.

NOW THIS DEED WITNESSES AS FOLLOWS:

- 1.0 In consideration of the performance guarantee the Guarantor hereby undertakes to pay to the Purchaser within 30 days of demand and without demur such a sum not exceeding Rs. -----/- (Rs. _____ only) representing 10 % of the Contract Price as the Purchaser may demand, and if the Guarantor shall fail to pay the same within the said period, the Guarantor shall also pay on the sum demanded interest at the bank lending rate then prevailing reckoned from the said 30 days till the date of payment.
- 2.0 The Guarantor shall pay to the Purchaser on demand the sum under Clause 1 above without demur and without requiring the Purchaser to invoke any legal remedy that may be available to them, it being understood and agreed, **FIRSTLY** that the Purchaser shall be the sole judge of and as to whether the Seller have committed breach / or breaches, of any of the terms and conditions of the Agreement and to the extent of loss, damage, costs, charges and expenses caused to or suffered by the Purchaser from time to time shall be final and binding on the Guarantor and **SECONDLY** that the right of the Purchaser to recover from the Guarantor any amount due to the Purchaser shall not be affected or suspended by reasons of the fact that any dispute or disputes have been raised by the Seller with regard to their liability or that proceedings are pending before any Tribunal,

Arbitrator(s) or Court with regard thereto or in connection therewith, and THIRDLY that the Guarantor shall immediately pay the aforesaid guaranteed amount to the Purchaser on demand and it shall not be open to the Guarantor to know the reasons of or to investigate or to go into the merits of the demand or to question or to challenge the demand or to know any fact affecting the demand and LASTLY that it shall not be open to the Guarantor to require proof of the liability of the Seller to pay the amount before paying the aforesaid guaranteed amount to the Purchaser.

- 3.0 This guarantee is in addition to and not in substitution for any other guarantee executed by the Guarantor in favour of the Purchaser on behalf of the Seller.
- 4.0 The Seller and the Purchaser will be at liberty to vary and modify the terms and conditions of the said Agreement without affecting this guarantee, notice of which modifications to the Guarantor is hereby waived and the same shall be deemed to have been done with the assent of the Guarantor.
- 5.0 This guarantee shall not be affected by any change in the constitution of the Guarantor or of the Seller nor shall the guarantee be affected by the change in the constitution of the Purchaser or by amalgamation or absorption with any other body corporate and this guarantee will be available to or enforceable by such body corporate.
- 6.0 The neglect or forbearance of the Purchaser in enforcing any payment of moneys, the payment whereas is intended to be hereby secured or the giving of time by the Purchaser for the payment thereof shall in no way release the Guarantor from its liability under this deed.
- 7.0 This guarantee is irrevocable except with the written consent of the Purchaser.

- 8.0 This guarantee shall come into force from the date hereof and shall remain valid for 24 months from the date of performance trial, but if the period of the contract is for any reason extended and upon such extension if the seller fail to furnish a fresh or renewed guarantee for the said extended period, the Guarantor shall pay to the Purchaser the said sum of Rs. _____/- (Rupees _____ only) or such lesser sum as the Purchaser may demand.
- 9.0 The invocation of this guarantee shall be by a letter signed by the Purchaser.
- 10.0 Notwithstanding anything stated hereinbefore the liability of the Guarantor under this guarantee is restricted to Rs. _____/- (Rupees _____ only). This guarantee shall remain in force upto _____. Unless a demand or action under this guarantee is presented to the Guarantor in writing within one month from the date of expiry all rights of the Purchaser under this guarantee shall be forfeited and the Guarantor shall be released and discharged from all liabilities hereunder.

IN WITNESS WHEREOF _____ for and on behalf of the Guarantor have signed this deed on the day and year above written.

Witness: _____

For and on behalf of the Guarantor

B. BANK GUARANTEE FOR EARNEST MONEY DEPOSIT (EMD)

This guarantee made this ----- /----- / 2020 for Rs. ----- Lakh (Rs.----- Lakh only) by the ----- Bank, the Bank having its branch office at -----, Tal.-----, Dist.----- (here-in-after called the Guarantor which expression shall, unless repugnant to the context or contrary to the meaning thereof, include it successor and assignees) of the one part in favour of **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar, Maharashtra State** a society registered under the Maharashtra State Co-operative Society Act, 1960 and having its registered office at **M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar** (Here-in-after called as Purchaser here-in-after called the Guarantor which expression shall, unless repugnant to the context or contrary to the meaning thereof, include it successor and assignees) of the other part.

Whereas ----- a company registered under the Indian Companies Act 1956 having its registered office at-----and chief place of business at ----- (here-in-after called as the Bidder which expression shall, unless repugnant to the subject or context include their legal representatives administrator, successor or permitted assignees) is participating in a Tender (here-in-after called the said Tender) to design, manufacture, supply machinery and equipment for the purchaser proposed ----- plant at **M/s. M/s. Mula Sahakari Sakhar Karkhana Ltd, Sonai, Tal. Newasa, Dist. Ahmednagar** in accordance with the terms and conditions therein contain in the tender document (here-in-after referred to as the said machinery and equipment)

And whereas under section I -3 clause 4, TERMS and CONDITIONS of the said Tender document, the Bidder is required to furnish to the Purchaser a Bank Guarantee in respect of Earnest Money Deposit for Rs.-----/- Lakh (Rs. ----- Lac) mentioned section I -3 clause 4- Earnest Money Deposit.

And Whereas the Guarantor has at the request of the Bidder agreed to give the guarantee as here-in-after appearing.

NOW THIS DEED WITNESSES AS FOLLOWS:

- 1.0 In consideration of the Earnest Money Deposit the Guarantor hereby undertakes to pay to the Purchaser within 30 days of demand and without demur such a sum not exceeding Rs -----/- Lakh (Rs. -----Lakh) as the Purchaser may demand, and if the Guarantor shall fail to pay the same within the said period, the Guarantor shall also pay on the sum demanded interest at the bank lending rate then prevailing reckoned from the said 30 days till the date of payment.
- 2.0 The Guarantor shall pay to the Purchaser on demand the sum under clause 1 above without demur and without requiring the Purchaser to invoke any legal remedy that may be available to them, it being understood and agreed, **FIRSTLY** that the Purchaser shall be the sole judge of and as to whether the bidder have committed breach /or breaches, of any of the terms and conditions of the Agreement and to the extent of loss, damage, costs, charges and expenses caused to or suffered by the Purchaser from time to time shall be final and binding on the Guarantor and **SECONDLY** that the right of the Purchaser to recover from the Guarantor any amount due to the Purchaser shall not be affected or suspended by reason of the that any disputes have been raised by bidder with regard to their liability or that proceedings are pending before any Tribunal, Arbitrator(s) or Court with regard thereto or in connection therewith, and **THIRDLY** that the Guarantor shall immediately pay the aforesaid guaranteed amount to the Purchaser on demand and it shall not be open to the Guarantor to know the reason of or to investigate or to go into the merits of the demand or to question or to challenge the demand or to know any fact affecting the demand and **LASTLY** that it shall not be open to the Guarantor to require proof of the liability of the bidder to pay the amount before paying the aforesaid guaranteed amount to the Purchaser.
- 3.0 This Guarantee is in addition to and not in substitution for any other guarantee executed by the Guarantor in favor of the Purchaser on behalf of the bidder.

- 4.0 The bidder and Purchaser will be at liberty to vary and modify the terms and condition of the said Tender. Without affecting this guarantee, notice of which modifications to the Guarantor is hereby waived and the same shall be deemed to have been done with the assent of the Guarantor.
- 5.0 This guarantee shall not be affected by any change in the constitution of the Guarantor or of the bidder nor shall the guarantee be affected by the change in the constitution of the Purchaser or by amalgamation or absorption with any other body corporate and this guarantee will be available will be available by such body corporate.
- 6.0 The neglect or forbearance of the Purchaser in enforcing any payment of moneys, the payment whereas is intended to be hereby secured or the giving of time by the Purchaser for the payment thereof shall in no way release the Guarantor from its liability under this deed.
- 7.0 This guarantee shall is irrevocable except with the written consent of the Purchaser.
- 8.0 This guarantee shall come into force from the date hereof and shall remain valid for 120 days from the date of submission of the tender i.e -----/-----/2020. The Guarantor shall pay to the Purchaser the said sum of Rs. ----- Lakh (Rupees ----- Lakh) or such lesser sum as the Purchaser may demand.
- 9.0 The invocation of this guarantee shall be by a letter signed by the Purchaser.
- 10.0 Notwithstanding anything stated hereinbefore the liability of the Guarantor under this guarantee is restricted to Rs. ----- Lakh (Rs. ----- Lakh). This guarantee shall remain in force up to ---/---/2020. Unless a demand or action under this guarantee is presented to the Guarantor in writing within one month from the date of expiry all rights of the Purchaser

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under this guarantee shall be forfeited and the Guarantor shall be released and discharged from all liabilities hereunder.

IN WITNESS WHERE OFfor and on behalf of the Guarantee have signed this deed on the day and year above written.

Witness:.....

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For and on behalf of the Guarantor

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VSSS

LIST OF C.P.U. PLANT SUPPLIERS

- * M M Enviro Projects Pvt. Ltd.,
Aakanksha Arcade, KDK College Road,
Nandanvan, Nagpur-440009
Ph. No. - +91-712-2714960
Fax No. - +91-712-2714968
email-mmenviro@gmail.com

- * Global Enviro Tech. Services,
207, Konark Plaza, Kesnand Road,
Wagholi, Tal. Haveli, Dist. Pune-412027
Ph. No. 7875157070
email-sawantmadhukar@rediffmail.com
gets7070@gmail.com

- * Water Treatment Equipments,
Sr. No. 80/1, Bhosari-Alandi Road,
Behind Hotel Pragati, Wadmukhwadi,
Charholi (Bk), Pune-412105,
Ph. No. 020-32009688,
email- contact@watertreatmentindia.net

- * Praj Industries Limited,
Praj Tower, 274/75,
Hinjawadi, Lonkar Chowk,
Phase-III, Pune.
Ph. No.- 020-22951511, 22952214
Fax – 020 – 22951515 / 22951718.
email-info@praj.net

- * Naran Lala Pvt. Limited,
Post Box No. 20,
Near Railway Station,
Navsari – 396445, (G.S.)
Ph. No. 02637-250371/256192
Fax No. 02637-252092
email-technical@naranlala.com