| Job: Design, Supply, installation, testing and commissioning of Cheese whey Handling & NF Plant |
|---|
| Tender Ref No - Online Tender RKVY/NMPS/DDDO A'NAGAR/ STSDS/ TENDER/14-15/01                    |
| Project Name - Tender Package 3   |
| Customer - Sangamner Taluka Sahakari Dugdh Sangh  |
| Project Authority - Sangamner Taluka Sahakari Dugdh Sangh                                       |
| Supplier - Tetra Pak India Pyt Limited, Pune  |

| Tender<br>Project<br>Custon<br>Project | sign, Supply, installation, testing<br>Ref No - Online Tender RKVY/NM<br>Name - Tender Package 3<br>Ier - Sangamner Taluka Sahakari D<br>Authority - Sangamner Taluka Sa<br>r - Tetra Pak India Pvt Limited, Pu | PS/DDDO A'NAGAR/ STSDS/<br>Dugdh Sangh<br>hakari Dugdh Sangh |   |   |   |                              |   |   |                              |  |  |
|--|---|--|---|---|---|------------------------------|---|---|------------------------------|--|--|
| roces                                  | S Queries<br>Section  | Section  | Tender Description  | Tetra Pak Queries/Understanding   | Tetra Pak Unders  | standing based               | d on pro l  | hid monting   |                              |  | Clarifications from Purchaser  |
|  |   | Section  |   |   |   |                              | a on pre i  | biu meeting   |                              |  |  |
| ##                                     | Page No 104   | 1.1 - Basis of<br>Design                                     | Tender does not mention Cheese Whey<br>Composition  | a natural composition<br>- pH 6,0 – 6,5<br>- The salty cheese whey must be excluded.<br>- Avoid introduction of air.<br>- Beside the use of starter culture, rennet, Calcium Chloride needed for the cheese | Permeate flow:       3,664 kgl/h (average)         Temperature of retentate out of plant:       12°C         Estimated composition of feed, retentate and permeate       ************************************   |                              |   |   |                              | (1) Purchaser will make the raw chilled whey available in<br>the raw whey silos. Raw whey chiller to chill whey from 45<br>deg C to 4 deg C at 10,000 LPH rate, along with required<br>pump, should be included by the Bidder as optional item in<br>the Commercial Bid. The pump and chiller will be installed<br>by the Purchaser in the Cheese Plant building. Whey pipin |  |
|  |   |  |   |   | % Lactose &<br>acids<br>% Minerals<br>% Total solids  | 0,15<br>4,79<br>0,52<br>6,20 |   | 0,46<br>17,76<br>1,24<br>22,00  | 0,11<br>0,07<br>0,25<br>0,44 |  | from chilled whey pump to chilled whey silo will be in<br>Purchaser's scope. (2) Equipment for pH<br>adjustment to be included in the scope of the Bidder. |
| ##                                     | Page No 119   | 1.7.1 - Battery Limits                                       | Raw chilled whey will be made available at the inlet of the raw whey silo.                                | We request you to amend this as written on right hand side so that each<br>bidder is at par in terms of scope   | <ul> <li>valves, IO cards, control and pneumatic cabling, software modifications shall be supplied and executed by bidder. Cheese whey transfer header and CIP return header shall be included in scope of supply.</li> <li>CIP of cheese whey transfer header - CIP of this cheese whey transfer line up to whey past shall be in scope of bidder and shall be done by tapping existing CIP supply and return headers as provided by client. Necessary CIP valves and water push valves as shown above shall be supplied by bidder. So this transfer line including its CIP line shall be included in present scope of proposal.</li> <li>Cheese whey transfer pump along with mass flow meter and CIP return</li> </ul> |                              |   | whey silo onwards up to NF whey outlet. Bidder should,<br>however, indicate a price reduction in the Commercial Bid<br>for a plant having individual automation of plant<br>components such as clarification, separation,<br>pasteurisation, Nano Filtration etc, as per Tender<br>specifications with flow plate / divert plate arrangement ar |                              |  |  |
| ##                                     |   | General Points   | We suggest a cheese fines filters before it goes for clarifications                                       | The cheese fine thus recovered can be reused and thus reduces the load on separator   |   |                              |   |   |                              |  |  |
| ##                                     |   | General Points   |   | Please confirm whether cheese whey manufactured is from 100 % cow milk  | As confirmed by c   | customer it wil              | ll be 100 s   | % cow milk.   |                              |  | Okay.  |
| ##                                     |   | General Points   |   | Please also confirm whether cheese whey making is from entire cheddar cheese  | As confirmed by c<br>Mozerrella Cheese  |                              | -   |   |                              |  | It is not possible to give any clear indications at this stage.<br>The bidders to design the plant for cheddar cheese whey.                                |
| ##                                     |   | General Points   |   | What are the additives which are used during the cheese manufacturing as these additives would come into whey and would contribute to total Total TS.   | Customer to infor   | rm the additive              | es.   |   |                              |  | Other than culture, rennet and calcium chloride, no other additives will be used during cheese production.   |
| ##                                     |   | General Points   |   | If Mozzarella cheese also going to be used in future or now then is it being manufactured by culture addition or acid addition  | As confirmed by c   | customer it is a             | added by  | culture add   | ition.                       |  | Okay.  |
| ##                                     | Page No 105   | ltem No 1.3.1.1  | Supplier to design & offer PLC based control system and also, alternatively, non-PLC based control system | Stand alone HMI is also sufficient to handle the plant as this is a smaller capacity plant and as such SCADA is not required Please confirm   | Automation scope of work for this package shall be - There will be a small<br>central control automation system i.e. one PC having SCADA package loaded<br>on the same and will be used as (Operating station - OS + Engineering Statio<br>- ES (in a single PC) along with control system. Pasteuriser control logic shall<br>be built in central PLC. This central PLC which will be used to control and<br>operate this entire package using the above PC. Whey separator and NF<br>plant PLC's shall be third party PLC's and may be linked to this central<br>automation through ethernet protocol for signal exchange. Please comment<br>(if any)   |                              | ge loaded<br>ng Station<br>ogic shall<br>I and<br>d NF<br>ral | n<br>Clarified above.   |                              |  |  |
| ##                                     |   | General Points   |   | Purchaser should give RO water of good quality for CIP and operation of NF  | Customer confirm  | ned the same.                |   |   |                              |  | Okay. Bidder to provide RO water specifications and<br>quantity.   |
| ##                                     |   | General Points   |   | Performance criteria of NF should be specified<br>Cheese whey should be fresh and should not be stored for longer duration  | Customer to reven   |                              |   |   |                              |  | Bidder to state performance of the offered plant.  |
| ##                                     |   | General Points   |   | before feeding to NF.   | Customer confirm  | ned the same s               | shall be u  | itilized in les   | s than 24 hours              | time.  | Okay.  |

| Sr. No | Section     | Section                | Tender Description  | Tetra Pak Queries/Understanding   | Tetra Pak Understanding based on pre bid meeting   |  |
|--------|-------------|------------------------|---|---|--|--|
| ##     | Page No 119 | 1.7.2 - Battery Limits | lavailable at one point in the whey processing plant, from where they | Separate dedicated CIP system or circuit shall be required and same has not been mentioned  | As confirmd by customer right now CIP supply and return li<br>available by client at one point at the entry of cheese whey<br>and there after further tapping of CIP supply line and returr<br>consumption point within the room shall be in scope of bid<br>Any modification in existing CIP system so as to link with Ch<br>handling PLC system shall be in scope of customer. |  |
| ##     |             | General Points         |   | Whey initial processing is also there including some tankages is it manual<br>flow plate based or automated pneumatic valve based | This will be a totally automated plant having pneumatic valv<br>(double seat valves), single seat valves, butter fly valves.   |  |
| ##     |             | General Points         |   |   | NF Concentrate shall be left at the outlet of NF plant. Howe include one concentrate chiller from 12 deg C to 4 deg C in down the concentrate.   |  |
| ##     |             | General Points         |   | Permeate Battery Limits   | NF Retentate shall be left at the outlet of NF plant.  |  |

| COMMERCIAL POINTS | - For Package 1, 2 & 3     |   |   |  |  |
|-------------------|----------------------------|---|---|--|--|
|                   |                            |   | ** We propose following payment terms   |  | +  |
|                   |                            | ** 10% advance on supply value shall be payable against advance<br>bank guarantee (ABG) of equivalent amount valid till 8 / 6 months (as<br>per package opted). The ABG shall be returned on completion of<br>delivery of the supply and after receipt of PG  | <b>** 30% advance</b> on supply value shall be payable against advance bank guarantee (ABG) of equivalent amount valid till 8 / 6 months (as per package opted). The ABG shall be returned on completion of delivery of the supply and after receipt of PG  |  | During the pre-b<br>payment terms p  |
| ## Page No 151    | 9.0 - Payment Terms        | **70% of supply price progressively on pro-rata basis against delivery of material at site (Based on the approved price break-up to be furnished after receipt of order).   | <b>**60% of supply</b> price progressively on pro-rata basis against delivery of material at site (Based on the approved price break-up to be furnished after receipt of order).  | During the discussions DDO agreed to the payment terms proposed by all bidders.                      | of the bidders, R<br>and other concer<br>mentioned in the<br>meet bidders der  |
|                   |                            | ** Retention payment of 20% shall be paid after sixty days of<br>installation, commissioning & successful performance trials and<br>handing over of the Plant, against performance bank guarantee of<br>equivalent amount valid till 12 months from the date of issue of the<br>Acceptance Certificate. In case a performance bank guarantee is not<br>submitted, this retention amount will be paid after 12 months of<br>plant hand over against trouble free plant performance | ** Retention payment of 10% shall be paid after thirty days of installation, commissioning & successful performance trials and handing over of the Plant, against performance bank guarantee of equivalent amount valid till 12 months from the date of issue of the Acceptance Certificate. In case a performance bank guarantee is not submitted, this retention amount will be paid after 12 months of plant hand over against trouble free plant performance                                      |  | stands clear tha<br>Tender docume  |
| ## Page No 9      | EMD in the form of DD Only | EMD in the form of DD is asked.   | We also request to have EMD in the form of bank guarantee.  |  | EMD to be paid   |
| ## Page No 263    |                            | Bank Guarantees from all nationalized banks are acceptable. Bank<br>Guarantees from banks other than the Nationalized Banks, will not<br>be accepted  | Globally we have got a tie up with HSBC Bank and hence request BG being submitted under this project from HSBS bank also.   | During the discussions DDO agreed to this.   | "Can be conside<br>pre-bid meeting   |
| ##                | General Point              | Final FOR Site Site Prices to be quoted   | <b>VAT Offset</b> - Bidders in Maharashtra will have to quote their FOR site prices with VAT @ 12.5 % which will any way be higher than the bidders those who are based out of Maharashtra and quote under CST @ 2 % against form C. Since this job is for value added items like condensed milk and cheese whey handling and hence VAT Offset shall be available to dairy as the dairy products have got VAT applicable on them. We request dairy to evaluate the bid prices considering VAT Offset. | This was discussed during the meeting and dairy management agreed to consider to look into the same. | Okay   |
| ##                | General Point              | Tender mentions that commercial bid prices are only to be submitted<br>online in the excel sheet format specified and in no form price should<br>be submitted in hard copy  |   |  | It was clarified d<br>additional or op<br>Deviation Form,<br>The additional o<br>mentioned in th<br>be part of the Te<br>prices for such it<br>Technical Bid, in |

|  | Clarifications from Purchaser  |  |  |  |  |
|--|--|--|--|--|--|
| rn line shall be made<br>hey handling room<br>sturn line up to<br>bidder.<br>h Cheese whey | Clarified above.   |  |  |  |  |
| valves (Mix Proof  | Clarified above.   |  |  |  |  |
| owever we suggest to<br>C in order to cool   | Bidder to quote as optional item with required pipes,<br>fittings, valves, controls etc. Technical Deviation Form to<br>indicate the item optionally included and Commercial<br>Deviation Form to indicate price for the optional item on<br>FOR Site basis, as per Tender terms and norms.  |  |  |  |  |
|  | Both the retentate and permeate to be left at the outlet of<br>the NF Plant (or the retentate at the outlet of chiller to be<br>optionally offered.)   |  |  |  |  |
|  |  |  |  |  |  |
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| ms proposed by all   | During the pre-bid meeting, RDDO had not agreed to the<br>payment terms proposed by the bidders. Upon insistance<br>of the bidders, RDDO had agreed to check up with DDC<br>and other concerned authorities, if the payment terms<br>mentioned in the Tender document could be modified to<br>meet bidders demand, at least to some extent. <u>It now</u><br><u>stands clear that the payment terms mentioned in the</u><br><u>Tender document cannot be amended.</u>                    |  |  |  |  |
|  | EMD to be paid by DD only as per Tender terms.   |  |  |  |  |
|  | "Can be considered" was what the RDDO had stated in the pre-bid meeting.   |  |  |  |  |
| gement agreed to   | Okay   |  |  |  |  |
|  | It was clarified during Pre-bid Meeting that prices for such<br>additional or optional items be mentioned in Commercial<br>Deviation Form, which will be part of the Commercial Bid.<br>The additional or optional items should, however, be<br>mentioned in the Technical Deviation Sheet which would<br>be part of the Technical Bid which will be opened first. The<br>prices for such items should not be mentioned in the<br>Technical Bid, in order to avoid rejection of the Bid. |  |  |  |  |