

## TENDER NOTICE

### JALPAIGURI SILIGURI PLASTIC ENGINEERING CENTRE

(A Project funded by DC-MSME and Govt. of West Bengal)

327, BIDHAN ROAD, (NEAR AUTO STAND), SILIGURI- 734 001

Phone : 094342 58599

NIT No: JSPEC/Tender/P&M/02/2<sup>nd</sup> Call

Date: 30-04-2014

The Director of The Jalpaiguri Siliguri Plastic Engineering Centre, Jalpaiguri, West Bengal invites sealed tenders in two bid system on behalf of GM, DIC, Jalpaiguri, Govt. of West Bengal, from the interested and eligible Original Manufacturers/ Authorized Dealers/ Authorized vendors for quality procurement of following plant & machinery/testing machines/measuring & hand tools/DG set for the COMMON FACILITY CENTRE (a project under MSE-CDP scheme of Ministry of MSME, Govt. of India) of The Jalpaiguri Siliguri Plastic Engineering Centre (hereinafter termed as 'SPV') as per the specification given in the Schedule annexed to the Tender hereto.

The bidders are requested to read the tender document carefully and ensure compliance with all instructions herein. Noncompliance with instructions in this document will disqualify the bidders from the tender process.

**1) Scope of Work:** Supply, Installation, Testing & Commissioning of different plant & machinery, testing machines, measuring & hand tools, DG set etc. (as mentioned in Schedule A1) at the CFC location at Vill.- Chaturagachh, P.O.- Sahudangi Hat, P.S.- Bhaktinagar, Dist.- Jalpaiguri, West Bengal.

Sr. No	Name of Work	Earnest Money (Refundable)	Period of Completion	Remark
1.	Supply, Installation, Testing & Commissioning of different plant & machinery, testing machines, measuring & hand tools, DG set etc	2% of the quoted price in the form of a Demand draft or Bankers cheque, drawn in favor of <b>Jalpaiguri Siliguri Plastic Engineering Centre</b> and payable at <b>Siliguri</b>	60 days from issuing of work order	Refer to Schedule A & B for details

**2) General Terms and Conditions:** General terms and conditions are as follows:

- Tender Document can be downloaded from [www.mssewb.org](http://www.mssewb.org) and [www.wbseps.com](http://www.wbseps.com)
- Both Technical Bid and Financial Bid to be submitted offline either by hand or by Registered Post/Speed post/Courier at the address given below-

- c) **The General Manager,**
- d) **District Industries Centre (DIC),**
- e) **Club Road, P.O. & Dist.: Jalpaiguri**  
**Pin- 735 101, West Bengal.**  
**(Ph: 03561 228087)**

c) Technical bid shall be opened first and evaluated by the Tender/Purchase committee. Financial bids shall be considered only if the bidders found qualified in the Technical bid.

d) **Any bidder can quote for a single item or for all the items in the Schedule A1.**

e) The rate quoted in the Financial bid shall be inclusive of all taxes, expenditure on the requisite approvals/quality assurance tests/certification/ freight & insurance and installation & commissioning of the machinery.

**The SPV shall provide C- Form wherever required.**

f) Installation & commissioning of the machinery to be carried at the CFC location at Vill.- Chaturagachh, P.O.- Sahudangi Hat, P.S.- Bhaktinagar, Dist.- Jalpaiguri, West Bengal.

g) Date and Time Schedule:

Sl. No.	Particulars	Date	Time
1.	Date of publishing of Bid on Website	01/05/2014	-
2.	Document Download start	01/05/2014	-
3.	Bid submission start	02/05/2014	11.00 am
4.	Bid submission close	26/05/2014	11.00 am
5.	Opening of Technical bid	26/05/2014	11.30 am
6.	List publication of qualified technical bidders	26/05/2014	1.00 pm
7.	Opening of Financial bid	26/05/2014	3.00 pm

**Place of submission & opening of tender – Office of The General Manager, District Industries Centre (DIC), Club Road, P.O. & Dist. – Jalapiguri, Pin- 735101, West Bengal. (Ph: 03561 228087)**

h) Decision of the Purchase Committee on any matter regarding short listing of vendors and other issues shall be final and in case of any dispute, the matter shall be settled mutually, failing which the decision of the Principal Secretary, Department of MSSE & T, Govt. of West Bengal shall be final and binding.

**3) Eligibility Criteria:** The company/trader intending to bid for appointment as P&M supplying

company/trader shall fulfill the following qualification criteria:

- a) The bidder shall be an agency/ firm duly registered under Company /Society /Cooperative Society Act/Other Govt. Regulation. [The bidder should possess necessary certificates like Trade license etc. of commissioning of business.]
- b) The bidder should have similar experience of supplying of bulk items earlier
- c) The bidder should possess requisite statutory documents as listed in "Schedule A"
- d) The bidder must not be blacklisted anywhere in India or abroad by Govt. or any other organization

**4) Tender Format and Submission Process:** The bid contain two components, namely Technical bid and Financial bid. For details regarding the technical bid, please refer to "Schedule A" and for details regarding the financial bid, please refer to "Schedule B".

**Submission Process:** The proposals shall be submitted in prescribed formats (Schedule A and B). The Technical Bid as per Schedule 'A' and Financial Bid as per Schedule 'B' should be submitted in separate envelopes super-scribing "Technical Bid" or "Financial Bid". Both sealed envelopes (containing technical/financial bids) are to be submitted in a common sealed envelope clearly super scribed "**Bids for engaging Manufacturer/Vender for Supply & Commissioning of Plant & Machinery for Jalpaiguri Siliguri Plastic Engineering Centre CFC**", and bearing the name and address of the bidder organization.

**The EMD could also be submitted in a separate sealed envelope clearly super scribed as "EMD Deposit" inside the common sealed envelope.**

**5) Earnest Money Deposit (EMD):** Along with their bids the Bidders are to submit an EMD @ 2% of the quoted price in the form of a Demand draft or Bankers cheque, drawn in favor of **Jalpaiguri Siliguri Plastic Engineering Centre** and payable at **Siliguri**. Any tender without demand draft for EMD will be **DISQUALIFIED** and **REJECTED**. EMD should reach the given office address as per final bid submission date and time. Photo/Fax copies of the demand draft will not be accepted.

In case the bidder/s is/are registered with the central purchase organization, National Small Industries Corporation (NSIC), the EMD may be exempted as per Govt. norms. In that case the bidder has to submit copy of valid registration copy along with the Technical bid.

**Refund of EMD:** The earnest money of unsuccessful bidders will be returned to them without any interest within thirty (30) days after awarding the contract.

**6) Security Deposit:** The successful bidder of the contract will have to deposit a security

amount @ 5% of the price of the PLANT & MACHINERY/ TESTING MACHINES/ MEASURING & HAND TOOLS/ DG SET. In case of his EMD is retained as part of the security deposit, balance amount has to be deposited by DD drawn in favor of **Jalpaiguri Siliguri Plastic Engineering Centre** on or before the day of allotment of purchase order.

The security deposit will be refunded without interest after twelve months of receiving the machines and satisfactory functioning of the same.

**7) Selection Process:** The successful bidder shall be selected based on the competitive bidding process. The Technical proposal shall be evaluated first and the bidders fulfilling the technical criteria shall be eligible to compete in the Financial bid. The bidder with lower financial quote shall be awarded the tender. However, the decision of the Purchase/Tender committee is final and binding in selection of the bidder.

**8) Payment Milestone:**

Sl. No.	Completion of Work	Payment
1.	Acceptance of Work Order	30% of the total billing amount as advance against equivalent Bank guarantee
2.	Dispatch of P&M from vendors premises	40% of the total billing amount
3.	On site delivery of Plant & Machinery	10% of the total billing amount
4.	Successful Installation, Testing & Commissioning of Plant & Machinery	Remaining 20% of the total billing amount after clearance from purchase committee / competent authority

**The SPV shall provide C- Form wherever required.**

**9) Penalty Clause:** For non-performance/ delayed performance, the following all or any penalties may be imposed on the selected agency:

(i) EMD will be forfeited in case of any mid-way unilateral withdrawal from the bidding process.

(ii) Forfeiture of performance security in case of any mid-way unilateral withdrawal from the assignment or delayed performance beyond stipulated period (Maximum 60 days from the date of accepting work order). Beyond 60 days, a penalty charge Rs. 1000/- per day will be imposed.

However, decision of the Evaluation Committee will be absolute and final in this respect.

**10) Clarification:** In case any further clarification or information is required, the prospective bidder may contact the undersigned.

**11) Court Jurisdiction:** This shall be subject to the exclusive jurisdiction of district of Jalpaiguri at West Bengal.

**12) The Tender/Purchase Committee Reserves the Following Rights:**

(i) To reject any/all application without assigning any reason thereof at any time prior to award of contract without incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidders of the ground for such action.

(ii) To relax or waive any of the conditions stipulated in this document as deemed necessary in the best interest of the project and the objective of the scheme without assigning any reasons thereof;

(iii) To include any other items in the Scope of Work at any time after consultation with the bidders or otherwise during the course of implementation of the work assignment.

**13) Rejection of Bid:**

(i) It is not in prescribed form and not containing all required details/information/documents.

(ii) Offer is received other than off line hard copy submission mode.

(iii) Bid received without EMD.

(iv) During scrutiny if it is comes to the notice that the credential or any other paper found incorrect/manufactured/fabricated.

(v) If it is conditional and incomplete.

**14) Warranty Declaration:**

- Bidders must give the comprehensive on-site **one year** warranty from the date of installation of all items against any manufacturing defects and also give the warranty declaration that everything to be supplied by them hereunder shall be free from all defects and faults in materials, workmanship and shall be of the highest quality and materials of the type ordered, shall be in full conformity with the specification.

- Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction/specifications specified in the order/contract and demonstrate at their own cost. The payments shall be made only after receiving the materials in the required format and quality to the satisfaction of the concerned authority.

**15) Prospective Bidders** are advised to note carefully the bidding process as mentioned in **“Instruction to Bidders” stated in Schedule-A** before entering the Bids.

Director

Jalpaiguri Siliguri Plastic Engineering Centre  
Jalpaiguri  
West Bengal

**NIT No: JSPEC/Tender/P&M/02/2<sup>nd</sup> Call**

**Date: 30-04-2014**

Copy forwarded for information to:-

The GM, District Industries Centre, Jalpaiguri  
The Director, Directorate of M&SSE, Govt. of West Bengal, 9<sup>th</sup> Floor, NS Building, Kolkata -  
700001

Director  
Jalpaiguri Siliguri Plastic Engineering Centre  
Jalpaiguri  
West Bengal

## ***Schedule "A"***

Schedule A include

- a) Instruction to bidders

- b) Cover letter – Technical Bid
- c) Format for Statutory document list
- d) List of required statutory documents
- e) Format for P&M list bidder intend to supply
- f) Schedule A1 – Details of P&M

**A) Instructions to Bidders –**

- 1. Bidder should furnish all documents as per given format.**
- 2. Bidder should fill up the statutory document list format providing all relevant data.**
- 3. Bidder should attach photocopy of all the statutory documents mentioned in the list as per format S r. number.**
- 4. Submission of statutory document list format and photocopy of documents are mandatory.**
- 5. Bidder should fill up the P&M list format providing all relevant data.**
- 6. Bidder should attach original/photocopy of all the P&M specification documents. However, submission of documents is optional.**
- 7. If any bidder intend to supply improved P&M in comparison with given specification, he should clearly mention the deviation with supporting document.**
- 8. If there is no deviation in the specification, then clearly mention “As per Item No..... of schedule A1” in the specification column.**

**B) Cover Letter – Technical Bid**

The Director,  
Jalpaiguri Siliguri Plastic Engineering Centre,  
327, Bidhan Road,  
Near Auto Stand,  
Siliguri-734 001. (W.B.)

**Sub: Submission of Technical Bid for Supply of plant & machinery, testing machines, measuring & hand tools and DG set for the Common Facility Centre (CFC) of the Rajganj Plastic Processing Cluster, Dist.-Jalpaiguri, West Bengal.**

**Ref: NIT No. JSPEC/Tender/P&M/02– 2<sup>nd</sup> Call dated 30.04.2014.**

Sir,

Having gone through and carefully examined the N.I.T documents & Instructions to Bidders including the Statutory, Technical documents, I /we hereby submit all the necessary information and relevant documents of Technical Bid for evaluation.

The application is made by me / us on behalf of M/s.....  
..... duly authorized to submit the bid.

I/We certify that the information provided in the proposal are true to the best of our knowledge and understand that any variation to the same may lead to rejection of our proposal.

I/We understand that you are not bound to accept any proposal you receive.

Encl:

1. Statutory document Format
2. Photocopy of Statutory documents
3. P&M specification Format
4. P&M specification documents

Date:

Yours sincerely,

Authorised Signatory (In full and initials)  
Name and Title of Signatory  
Name of the Firm  
Address

**C) Format for Statutory document list**

Sr. No	Statutory Document Name	Document Number	Issuing Authority	Date

**D) List of Required Statutory Documents:**

1. Certificate of Incorporation
2. Trade License
3. PAN/TAN
4. Vat Registration
5. IT Return for last three years
6. Dealership Certificate (If applicable)
7. Copy of Work order of at least three similar P&M supply job
8. Quality Certificate (If any)

**E) Format for P&M list bidder intend to supply**

Sr. No	P&M Name	Specification	Manufacturer	Warranty Period

## Schedule A1

### LIST OF PLANT & MACHINERY, TESTING MACHINES, MEASURING & HAND TOOLS AND DG SET

Sl. No.	Name of the item	Specification	Quantity
01	CENTRE LATHE 4000 MM ABC	<p>Extra heavy duty all geared precision lathe machine having bed length 5750 mm , centre height 430 mm, bed width 560 mm, swing over bed 840 mm, swing over saddle 600 mm, swing over cross slide 510 mm, swing in gap 1250 mm, length of gap in front of face plate 365 mm, no. of spindle speed 8, spindle speed range 20 to 275 RPM, taper in spindle sleeve MT-5, spindle hollow 104 mm, spindle nose detail- Bayonet size 11, no. of British threads 28, range of British threads 1.5 to 22 TPI, no. of Metric threads 22, range of Metric threads 0.75 to 16 mm, no. of feeds 28, range of longitudinal feeds 0.2 to 3.0 mm/rev., range of transverse feeds 0.033 to 0.50, lead screw 50.8 mm X 2 TPI, tail stock spindle diameter 95 mm, taper in tailstock spindle MT-5, cross slide travel 430 mm, compound slide travel 230 mm, tail stock travel 220 mm, tool shank size 38X38 mm, tool post square 200X200 and admit between center 4000 mm, complete with standard accessories like electric motor, V-belts, 2 MT centre, center bush, oil can, screw driver, set of fixed spanner, set of allen keys, tool post spanner, carrier plate, instruction &amp; spare parts manual and fitted with 3 jaw self-centering chuck and electrical control panel.</p> <p><b>Special Attachment:</b></p> <p>Boring/deep drilling attachment for range of boring 25 to 100 mm dia. and boring length 1750 mm.</p> <p><b>Additional Accessories:</b></p> <p>Face plate, steady rest, follow rest, rapid traverse of main saddle, chuck flange, independent dog chuck, elec. Coolant pump with tank &amp; fittings, taper turning attachment, machine lamp with control transformer.</p>	1 No.

02	CENTRE LATHE 2500 MM ABC WITH GRINDING ATTACHMENT	<p><b>14' FEET BELT AND PULLEY TYPE HEAVY DUTY LATHE MACHINE</b></p> <p>WIDTH OF BED :- 375 MM</p> <p>CENTRE HEIGHT :- 375 MM</p> <p>ADMIN CENTRE :- 3100 MM</p> <p>MAXIMUM SWINGING OVER BED :- 750 MM</p> <p>SWINGING OVER CROSS SLIDE :- 550 MM</p> <p>SWINGING IN GAP E :- 1050 MM</p> <p>NO. OF SPINDLE SPEED :- 8 (30 to 475 RPM)</p> <p>LEAD SCREW TPI :- 2</p> <p>METRIC THREAD PITCH :- 0.5 MM TO 6 MM PITCH</p> <p>SPINDLE BORE :- 100 MM</p> <p>TAPPER IN CENTRE :- MT4</p> <p>ELECTRIC MOTOR :- 5 HP, 960 RPM ( ABB )</p> <p>DOG CHUCK (4 JAW –16" (D/S)</p> <p>TOOL POST MOTORISED GRINDING ATTACHMENT FITTED WITH 1 HP ELECTRIC MOTOR</p> <p>ATTACHMENT FOR SCREW POLISHING/BUFFING ARRANGEMENT FITTED WITH SUITABLE ELECTRICAL MOTOR</p> <p>CHUCK PLATE</p> <p>FACE PLATE</p> <p>MOTOR PULLEY</p> <p>STEADY REST, FOLLOW REST</p> <p>TAPPER ROLLER BEARING TYPE</p> <p>FLAME HARDENED BAD</p> <p>HEAVY DUTY</p>	1 No.
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		R/F SWITCH DEADCENTRE, SLEEVE CHAIN GEAR SET TOOL POST KEY DIAL INDICATOR SQUARE TOOL POST TOOL POST KEY REAR TOOL POST MACHINE LAMP R/F SWITCH, 4M CABLE (ISI)  COOLANT PUMP WITH TANK & FITTINGS  ELECTRICAL CONTROL PANEL	
03	CENTRE LATHE 2500 MM ABC, HEAVY DUTY	<b>12 FEET BELT AND PULLEY TYPE EXTRA HEAVY DUTY LATHE MACHINE</b> WIDTH OF BED :- 375 MM CENTRE HEIGHT :- 375 MM ADMIN CENTRE :- 2500 MM MAXIMUM SWINGING OVER BED :- 750 MM SWINGING OVER CROSS SLIDE :- 550 MM SWINGING IN GAP :- 1050 MM NO. OF SPINDLE SPEED :- 8 LEAD SCREW TPI :- 2	1 No.

		<p>METRIC THREAD PITCH :- 0.5 MM TO 6 MM PITCH</p> <p>SPINDLE BORE :- 100 MM</p> <p>TAPPER IN CENTRE :- MT4</p> <p>ELECTRIC MOTOR :- 5 HP, 960 RPM ( ABB )</p> <p>DOG CHUCK ( 4 JAW – 16” (D/S)</p> <p>TOOL POST GRINDER</p> <p>KEY WAY MILLING ATTACHMENT</p> <p>TAPPER TURNING ATTACHMENT</p> <p>CHUCK PLATE</p> <p>FACE PLATE</p> <p>MOTOR PULLEY</p> <p>STEADY REST, FOLLOW REST</p> <p>TAPPER ROLLER BEARING TYPE</p> <p>FLAME HARDENED BAD</p> <p>HEAVY DUTY</p> <p>REAR TOOL POST</p> <p>MACHINE LAMP</p> <p>R/F SWITCH</p> <p>DEADCENTRE, SLEEVE</p> <p>CHAIN GEAR SET</p> <p>TOOL POST KEY</p> <p>R/F SWITCH, 4M CABLE (ISI)</p> <p>COOLANT PU MP WITH TANK &amp; FITTINGS</p> <p>ELECTRICAL CONTROL PANEL</p>	
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04	PRECISION LATHE 2000MM ABC	<p style="text-align: center;"><b>ALL GEARED HEAVY DUTY LATHE MACHINE:</b></p> <p><b><u>Special Features:</u></b></p> <ul style="list-style-type: none"> <li>• Lathe bed is of grade 20 casting, duly flame hardened and ground with brinell hardness of over 300 BHN</li> <li>• Head stock gears of special alloy case hardening steel and are duly hardened and profile ground</li> <li>• Headstock spindle is ground and runs in one anti friction taper roller bearings in front wall of head stock and one taper roller bearing in rear side wall of head stock</li> <li>• Norton gear box and apron gear box are oil bath and gears are splash lubricated</li> <li>• Quick change Norton type gear box provides wide range of INCH/MM threads</li> <li>• Accuracy is tested as per IS : 1878 (PART I) 1971</li> <li>• Lead screw, starting shafts are different</li> <li>• Control panel for on/off the machine, reverse/off/forward start handle is given along with apron gear box for easy control.</li> </ul> <p><b><u>Complete with standard accessories including:</u></b> Hardened &amp; ground bed guide ways, electric motor, 'V' belts, catch plate, inch &amp; mm gears, 2 MT dead centers with center bush, oil can, screw driver, set of allen keys, set of fixed spanners, tool post spanners, carrier plate, instruction &amp; spare parts manual.</p> <p><b><u>Technical specifications in mm:</u></b> All geared lathe machine having 8 no. of spindle speed, ranges 30 – 1235 rpm with bed length – 3095 mm, centre height – 254 mm, width of bed – 325 mm, admit between centers – 1910 mm, swing over bed – 484 mm, swing over cross slide – 292 mm, swing in gap - 800, spindle hollow – 52 mm.</p> <p><b><u>Additional Equipment:</u></b> Face plate, Steady rest, Follow rest, electric coolant pump with tank &amp; fittings, 305 mm centre height in lieu of std. 254 mm, taper turning attachment, rear tool post with tool holder, key way milling attachment, machine lamp with control transformer &amp; wiring with lamp, chuck flange, 12"x4 - jaw independent dog chuck, 14"x4 - jaw independent dog chuck, 16"x4 - jaw independent dog chuck, 8"x3 - jaw self-centering</p>	1 No.
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		<p>chuck, 10"x3 - jaw self-centering chuck, 12"x3 - jaw self-centering chuck, quick change tool post with five tool holder,</p> <p><b>Tool post Grinder:</b>( external &amp; internal combined (without electricals), only external, only internal, 1 HP-3 PH electricals for tool post grinder), MT-4 revolving center, control panel with foot brake, set of anti-vibration mounts, rear splash guard.</p>	
05	PLC Controlled Screw Turning Lathe	<p><b>18 FEET THREAD MILLING MACHINE</b></p> <p>WIDTH OF BED :- 450 MM</p> <p>CENTRE HEIGHT :- 350 MM</p> <p>ADMIN CENTRE :- 3500 MM</p> <p>LEAD SCREW TPI :- 2</p> <p>FULLY TAPPER ATTACHMENT</p> <p>ELECTRIC VFD DRIVE 3Hp GEAR MOTOR FOR MAIN SPINDLE</p> <p>SPINDLE BORE :- 100 MM</p> <p>2 Hp MOTOR FOR CUTTER HEAD</p> <p>COLLANT ATTACHMENT WITH PUMP, TANK, FITTINGS &amp; MOTOR</p> <p>PITCH 20mm TO 170mm</p> <p>OIL DRAINAGE SYSTEM</p> <p>TRUE CHUCK ( 3 JAW - 12")</p> <p>CHUCK PLATE</p> <p>TAPPER ROLLER BEARING TYPE</p> <p>FLAME HARDEN BAD</p> <p>SEMI PLC CONTROL PANNEL</p> <p>V/A/kwh METER, LIMIT SWITCH</p> <p>HEAVY DUTY</p>	1 No.

		<p>DEADCENTRE, SLEEVE</p> <p>CHAIN GEAR SET</p> <p>ELECTRICAL CONTROL PANEL</p>	
06	Universal Milling Machine	<p>Universal horizontal milling machine, having table size 42"x 10", universal geared head with one feed auto complete with standard accessories and vertical attachment, no. of T-slots-3, size of T-slots – ½", Swivel either side of table – 45", cross traverse – 175 mm, vertical traverse – 450 mm, longitudinal traverse – 525 mm, arbour dia. – 25.4 mm, taper of spindle – ISO 40, no. of spindle speed – 9, range of spindle speed – 40 – 700 RPM, spindle dia. – 80 mm , no. of feed in longitudinal table long – 2, main motor power (HP) - 2, 440V, 3 phase, 1440 RPM 50 Hz electric motor suitable starter, R/F switch, vee belts and fittings. Coolant pump &amp; fittings, Vertical attachment, Universal Dividing head with three sets of index plate (15,20), (21,23,27,29,31,33), (37,39,41,43,47,49) (two side hole plate centre 110 mm), 12 change gears sets suitable for attachment &amp; with three jaw chuck, adopter, arbor and collets.</p>	1 No.
07	Cylindrical Grinder	<p>MAX. GRINDING DIAMETER 200 MM</p> <p>DISTANCE BETWEEN CENTRE 3500 MM</p> <p>MAX. WEIGHT OF WORK PIECE 1000 KGS</p> <p>WORK PIECE SPEEDS:</p> <p>- CONTINUOUSLY:</p> <p>- IN 9 STEPS</p> <p>25 – 380 RPM</p> <p>25 – 300 RPM</p> <p>TABLESPEED 0.3 – 3.5 M/MIN</p>	1 No.

		<p>ACCESSORIES:</p> <ul style="list-style-type: none"> <li>- ALL STANDERED REQUIRED ACCESSORIES WITH INTERNAL GRINDING ATTACHMENT</li> <li>- DIGITAL READ-OUT MITUTOYO ON 1 AXIS</li> <li>- STEADIES</li> <li>- TECHNICAL BOOK</li> </ul> <p>COMPLETE CYLINDRICAL GRINDING MACHINE WITH ALL REQUIRED ELECTRICAL MOTOR, PANEL AND COOLANT SYSTEM WITH TANK &amp; ALL FITTINGS.</p>	
08	Surface Grinder 36" X 16"	<p>Horizontal oil type surface grinder machine, table feed manual and grinding capacity 600 x 300 mm, complete with standard accessories and magnetic chuck – 250 X 500 mm, starter, wheel balancer, one diamond dresser with lubrication pump &amp; Z axis micro feed, coolant equipment &amp; fittings and machine lamp and fitted with suitable 440V, 3 Phase, 50 Hz electricals. Maximum height from table to grind. Wheel – 300 mm, vertical feed gradu. – 0.002, cross feed gradu. – 0.05, size of grinding wheel – 200X13X31.75 mm, spindle speed – 2800 RPM, main motor power – 2 HP.</p>	1 No.
09	Shaping Machine 24" strock	<p>Extra heavy duty Cone pulley drive SHAPING Machine having 24" stroke length with vice, complete with standard accessories, motor pulley, crank handle, automatic oil lubrication pump, fine stroke adjustment wheel and fitted with 3 HP, 440V, 3 Phase, 1440 RPM, 50 Hz electric motor suitable starter and vee belts &amp; fittings . Length of ram stroke – 610 mm, length of ram – 1232 mm, length of width ram bearing 867X300, table of ram – 450X76 mm, working surface of table – 610X370 mm, max. table travel horizontal – 635 mm, max. table travel-vertical – 380 mm, angular movement of table – 60 deg. L 60 deg. R, max. vertical travel of tool slide – 190 mm, max. swivel of tool head – 60 deg. L 60 deg. R, dia. of clutch pulley – 311 mm, no. of ram speed – 4, stroke/min. – 14,28,42,62, dia. of motor pulley – 70 mm, stroke of ram – 0.229, range of tool head feed – hand feed, main motor power – 3 HP, motor RPM – 1440.</p>	1 No.

10	Honing Machine 2500 mm X 150 mm	<p>TECHNICAL SPECIFICATIONS OF HORIZONTAL HONING MACHINE 150X3000 (Hydraulic):</p> <p>(A) Basic machine along with standard accessories:</p> <ol style="list-style-type: none"> <li>1) Speed spindle range – 0-1000 RPM</li> <li>2) Stroke speed range – 0-10 mtr./min</li> <li>3) Spindle power – 3.75 KW (5 HP) with electric motor with gear box controlled by VFD</li> <li>4) Stroke travel – up to 3000 mm</li> <li>5) Feed-Electro Mechanical-Hydraulic Tool Expansion</li> <li>6) Job Dia. –25 to 150 mm</li> <li>7) Stroking system power – 7.50 KW (10 HP) with hydraulic cylinder</li> <li>8) Rigid MS weldment, fabricated base</li> <li>9) Machine control –PLC with HMI</li> <li>10) 460 VAC, 60 Hz, 3PH or 400 V, 50 Hz, 3 Ph power</li> <li>11) Electrical cabinet and operator control cabinet</li> <li>12) Isolation Transformer</li> <li>13) Manual, centralize oil system with firs fill</li> <li>14) Steel guarding</li> <li>15) Custom column risers</li> </ol> <p>(B) Coolant system including magnetic separator over deep paper bed filter, chiller unit, swarf container, two pumps, fine filters with transfer pumps and all necessary piping</p> <ol style="list-style-type: none"> <li>1) Magnetic separator mounted over deep bed paper filtration unit, rated for 75 lpm (20gpm) with honing oil</li> <li>2) 2 rolls filter paper</li> </ol> <p>(C) Fixturing</p> <ol style="list-style-type: none"> <li>1) Chain type outer Dia. job clamping system</li> <li>2) Tool guide supports at honing station</li> <li>3) Tooling plate</li> </ol>	1 No.

		<p>(D) Honing Accessories</p> <ol style="list-style-type: none"> <li>1) Tool Dia. 25 to 30</li> <li>2) Tool Dia. 35 to 40</li> <li>3) Tool Dia. 45 to 55</li> <li>4) Tool Dia. 60 to 70</li> <li>5) Tool Dia. 75 to 90</li> <li>6) Tool Dia. 100 to 120</li> </ol> <p>(E) Arbour</p> <ol style="list-style-type: none"> <li>1) Tool arbour suitable for Dia. 25 to 30</li> <li>2) Tool arbour suitable for Dia. 35 to 40</li> <li>3) Tool arbour suitable for Dia. 45 to 70</li> <li>4) Tool arbour suitable for Dia. 75 to 90</li> <li>5) Tool arbour suitable for Dia. 100 to 120</li> </ol> <p>(F) Hydraulic oil :Enklo N-68 – 400 lits.</p> <p>(G) Coolant oil : Honilo-980 – 200 lits.</p> <p>(H) Chilling unit for Hydraulic oil</p>	
11	Specialised Blade Sharpening machine	Traverse movement of working table – 1000 mm with Universal degree attachment for any degree from 0 deg. to 90 deg. With electrical motor and other electricals.	1 No.
12	RADIAL DRILL	<p>Heavy duty radial drill machine 38 mm cap. / 8 speed / 250 mm travel with fine feed attachment &amp; box table</p> <p><b>CAPACITY:</b></p> <p>Drilling capacity : 38 mm</p> <p>Column Dia. : 170 mm</p> <p>Spindle nose : MT – 4</p> <p>Dist. from spindle to pillar surface : 620 mm</p> <p>Spindle travel : 250 mm</p> <p>No. of spindle speed : 8</p>	1 No.

		<p>Spindle speed (RPM) : 100-2125</p> <p>Dia. of ram : 78 mm</p> <p><b>WORKING RANGE:</b></p> <p>Dist. from spindle to base (Max/Min) : 950/240</p> <p>Dist. from column to spindle : 825/385</p> <p>Max. drilling radius : 910</p> <p><b>Electricals:</b></p> <p>Drilling head motor (1440 RPM) : 1.5</p> <p>Lifting of arm motor (1440 RPM) : 0.5 HP</p> <p>V-Belt section : B-47 &amp; B-24</p> <p><b>Other:</b></p> <p>Size of box table : 300X300X385</p>	
13	SALT BATH	For heat treatment of different type of spare parts used in plastic processing plant & machinery like cutters, blades, mendles, sizers etc.	1 No.
14	GAS NITRIDING PLANT	<p><b>(1)</b> Pit type environmental friendly gas nitriding furnace suitable for barrels and screws size 600 Dia. X 3500 height complete with electrical control panel, manual hydraulic cover lifting arrangement.</p> <p>a) Useful Dia./Height, mm : 600/3500</p> <p>b) Retort Dia., mm : 760</p> <p>c) Gas guide cylinder, mm : 600</p> <p>d) Heating load, KW : 70</p> <p>e) No. of Zones : 3</p> <p>f) Mode of Temperature control : Delta/star/off for each zone plus additional retort control</p> <p>g) Max. working temp., deg. Centigrade : 650</p> <p>h) Recirculation fan motor, KW : 2.2</p> <p>i) Electrical supply : 415 plus/minus 5% volts, 3 PH, 50 C/S</p> <p><b>(2)</b> Ammonia feeding and monitoring panel with dissociation</p>	1 Plant

		meter and PLC based auto checking of dissociation percentage.  <b>(3)</b> Cabling.  <b>(4)</b> Erection & commissioning.	
15	HARD CHROME PLATING & POLISHING	<p>a) <b>Electroplating Tank (MS) – 2'X2'X13" ..... 1 no.</b></p> <p>b) <b>Electroplating Tank (MS) – 3.5'X3.5'X3.5' ..... 1 no.</b></p> <ol style="list-style-type: none"> <li>1) Material will be M.S (Mild Steel).</li> <li>2) M.S Sheet will be 10 gauges (3mm) thick '</li> <li>3) Inside will be P.V.C lining of 3mm sheet.</li> <li>4) Suitable collars to all top side of the tank.</li> <li>5) Outside will be F.R.P lining.</li> <li>6) Outer structure will be made up of 2"x2" MS angles</li> </ol> <p>c) <b>Blower for air agitation – 1 HP ..... 1 no.</b></p> <ol style="list-style-type: none"> <li>1) Capacity 240 Am<sup>3</sup>/A4</li> <li>2) Pressure 175 Mbar</li> <li>3) Vacuum 160 Mbar</li> <li>4) Three phase 2800 rpm</li> <li>5) CFM- 150</li> </ol> <p>d) <b>Electroplating Magnetic Chemical Filter Unit – 100 lit./min ..... 1 no.</b></p> <ol style="list-style-type: none"> <li>1) Material will be P.P. (Polypropylene)</li> <li>2) Filter housing will be of 12"Ø</li> <li>3) Powered with sealless magnetic pump.</li> <li>4) Pump RPM will be 2800</li> <li>5) Electrical Power: 440 Volts 50 Hz three phase power</li> <li>6) Amount of circulation 100 Let/min</li> <li>7) With 18 pads size of pad will be 10"Ø.</li> <li>8) Filter unit will be mounted on a wheel trolley</li> <li>9) Magnetic pump will be connected to Filter housing by braided pipe 25mmØ x 6" long</li> <li>10) Filter unit will have inlet &amp; outlet of 25mm ID x 3m pipes to connect plating tanks</li> </ol> <p>e) <b>Rectifier (Oil Cooled ) – 12v 7000 Amp.</b></p>	1 Unit

		<p>..... <b>1 no.</b></p> <p>1) Capacity .... 80 KW</p> <p>2) Input Voltage .... 380v, 3 PH, 50 HZAC</p> <p>3) Output Volts .... 0-12 V step less control system</p> <p>4) Output current .... 7000 Amps</p> <p>5) Duty Cycle .... 100% cont.</p> <p><b>Effluent Treatment Plant:</b></p> <p>a) Main Tank 59”X24”X30” 1 no.</p> <p>b) Acidic Solution Tank 3’X2’X2’ 1 no.</p> <p>c) Neutralisation Tank 3’X2’X2’ 1 no.</p> <p>d) Storage Tank (with partition) 3’X2’X2’ 1 no.</p> <p>1) Material will be P.P. (Polypropylene)</p> <p>2) P.P. Sheet will be 8 mm thick</p> <p>3) M.S. angle stand will be provided for storage tank</p> <p>e) Magnetic pump 30 lit./min 2 nos.</p> <p>f) Additional filter to achieve water PH up to 5.4 with magnetic pump – carbon filter -- 1 no.</p>	
16	RUBBERISING UNIT	<p>Mixing Mill : 12 X 30 inch with electrical motor &amp; all electrical accessories</p> <p>Vulcanising drum : 800 mm dia. X 2500 mm long</p> <p>Boiler : Suitable and matching boiler for the above mentioned vulcanizing drum.</p> <p>Misc. attachments required for the unit.</p>	1 Complete Unit
17	BENCH DRILL 25 MM	Standard	1 No.
18	PILLER DRILL 40 MM	High precision Pillar type drilling machine, 38 mm drilling capacity/8 speed/225 travel with fine feed :	1 No.

		<p>Drilling Cap. : 38 mm</p> <p>Pillar Dia. : 106 mm</p> <p>Spindle nose to table distance : 625 mm</p> <p>Spindle nose to base distance : 1000 mm</p> <p>Distance from spindle centre to pillar face : 285 mm</p> <p>Tapper in spindle : MT-4</p> <p>No. of spindle speed : 8</p> <p>Range of speed (RPM): 70-2000</p> <p>Table size : 415 mm X 415 mm</p> <p>Base size : 400 mm X 350 mm</p> <p>Over all base size : 650 mm X 440 mm</p> <p>Spindle travel : 225 mm</p> <p>Main motor power : 15 HP</p>	
19	TOOL & CUTTER GRINDER	Universal TOOL & CUTTER GRINDER machine complete with all standard accessories & fitted with 440V, 3- Phase, 50 Hz electricals.	1 No.
20	PORTABLE ANGLE GRINDER	180 mm Cap. High speed angle grinder	1 No.
21	FLEXIBLE SHAFT GRINDER	1 HP, 3 PH, 12000 RPM flexible shaft machine with mounting	1 No.
22	PORTABLE DRILL	13 mm Cap. Heavy duty drill m/c	1 No.
23	BENCH GRINDER	0.75 HP, 3 PH, 2800 RPM bench grinder with grinding wheels size 8"X1", 2 nos. wheel (one fine & one coarse)	1 No.

		fitted with wheel guard, tool rest.	
24	WELDING / GAS CUTTING SET	<p>a) Welding transformer (ESAB), welding cables, electrode holder, earthing clamp, welding goggles, chipping hammer.</p> <p>b) Portable Arc welding machine: specification Main supply, ph x V, Hz 1 x 230, 50, Fuse (slow), A 16; Open circuit voltage, VDC (Max) 60 – 75, Welding current range, A 4 – 150; Output at 60% duty cycle, A 110, Enclosure class IP 23C; Application class S, Standards of compliance IEC/EN 60974 – 1, Dimensions, l x w x h, mm 380 x 180 x 300, Weight, Kg 6.9.</p> <p>c) Oxy-Acetylene Gas cutting set comprising of cutter, nozzle (3/64", 1/32", 1/16"), oxygen regulator, acetylene regulator, dura hose pipe 8 mm I/D red &amp; blue (15 mtr. For each type), oxygen cylinder, acetylene cylinder, cylinder key, hose clamp</p>	<p>1 No.</p> <p>1 No.</p> <p>1 Set</p>
25	POWER SAW	8" Capacity hydraulic control hacksaw machine having blade size 400 mm X 32 mm complete with vice, powerful coolant pump, motor pulley, adjustable stop rod & brackets and electrical such as 1 HP 1440 RPM 3 PH motor, R/F switch, V-Belt, fittings etc.	1 No.
26	ELECTRIC HOIST 2 MT	3 MT capacity power travel type wire rope hoist 6 mtr. Lift hoist motor 3 HP 1440 RPM, C.T. motor 0.5 HP.	1 No.
27	TESTING MACHINES	<p><b><u>FOR PVC/HDPE PIPES FOR WATER SUPPLIES:</u></b></p> <p><b>01.</b> Impact testers - for pipes of up to 315 mm dia.</p> <p><b>02.</b> Internal hydrostatic pressure tester (for long term test) - single station model.</p> <p><b>03.</b> Internal hydrostatic pressure tester (for short term test) - single station.</p>	<p>1 No/ 1 Set/ 1 Unit each</p>

		<p><b>04.</b> End Fittings (locking plugs) for sizes -- (a) 16 mm (b) 20 mm (c) 25 mm (d) 32 mm (e) 40 mm (f) 50 mm (g) 63 mm (h) 75 mm (i) 90 mm (j) 110 mm (k) 125 mm (l) 140 mm (m) 160 mm (n) 180 mm (o) 200 mm.</p> <p><b>05.</b> Muffle Furnace (with digital temperature controller)</p> <p><b>06.</b> Pipe Wallthickness Guage.</p> <p><b>07.</b> PI - Tapes – (a) for 30 - 200 mm dia. (b) for 100 - 300 mm dia. (c) for 300 - 600 mm dia.</p> <p><b>08.</b> Revision tester - Hot air Oven (Universal Memmert type) (with digital temperature controller).</p> <p><b>09.</b> Specific Gravity Balances -- (a) Digital model (b) Analogue model (range 0.9 to 3.0).</p> <p><b>10.</b> Vicat Softening point test( to test up to 120 degree centrigrade).</p> <p><b><u>FOR PLASTIC PIPES FOR AGRICULTURAL USE:</u></b></p> <p><b>01.</b> Apparatus for testing effect of sun light.</p> <p><b>02.</b> Vaccum test apparatus.</p>	
28	MEASURING & OTHER HAND TOOLS	<p>(1) Micro meter outside 0-150 mm in steps</p> <p>(2) Micro meter outside 150-300 mm in steps</p> <p>(3) Inside micrometer</p> <p>5-30 mm</p> <p>25-50 mm</p> <p>50-300 mm</p> <p>(4) Micro meter depth gauge</p> <p>0-150 mm</p> <p>0-300 mm</p>	1 No. each

		<p>(5) Vernier caliper 600 mm</p> <p>(6) Digital vernier caliper 300 mm</p> <p>(7) Vernier height gauge 250 mm</p> <p>(8) Bore Gauge with Dial Indicator</p> <p style="padding-left: 40px;">18-35 mm</p> <p style="padding-left: 40px;">35-60 mm</p> <p style="padding-left: 40px;">50-150 mm</p> <p>(9) Magnetic stand</p> <p>(10) Compound Dial gauge with stand (metric)</p> <p>(11) Dial test indicator with magnetic gauge type 1 grade A with magnetic base</p> <p>(12) Center gauge 60</p> <p>(13) Surface plate 600 mm X 600 mm</p> <p>(14) Screw pitch gauge for metric pitches</p> <p>(15) Radius gauge metric set (1-7 mm)</p> <p>(16) Feeler gauge, range-0.05 to 1 mm</p> <p>(17) Taper gauge mt no. 1,2,3,4 &amp; 5</p> <p>(18) Limit plug gauges 5 mm to 25 mm by 2.5 mm range</p> <p>(19) Magnetic "V" block</p> <p style="padding-left: 40px;">100X95X75</p> <p style="padding-left: 40px;">150X95X75</p> <p>(20) Height master (manual) (Mitutoyo)</p> <p>(21) 1 set drill bits</p> <p style="padding-left: 40px;">1 to 13 mm drill bit</p> <p style="padding-left: 40px;">14 to 50 mm taper shank drill</p>	
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		<p>(22) HSS tap set- size-1 mm to 52 mm</p> <p>(23) 1 set of cutter and tool bits</p> <p>(24) Steel rule - 300 mm</p> <p>(25) Steel rule - 1000 mm</p> <p>(26) Steel tape- 5 metre.</p> <p>(27) 1 set hole punch</p> <p>(28) 1 set centre punch</p> <p>(29) 1 set D-Spanner</p> <p>(30) 1 set Ring spanner</p> <p>(31) 1 set box spanner</p> <p>(32) 1 set Allen key (mm)</p> <p>(33) 1 set Allen key (inch)</p> <p>(34) 1 set Chisel</p> <p>(35) Hammer ½ lb., 1 lb., 2 lbs., 5 lbs., 10 lbs.</p> <p>(36) Flat file 12", 18"- fine &amp; coarse</p> <p>(37) Round file 12", 18"- fine &amp; coarse</p> <p>(38) Half round file 12", 18" – fine &amp; coarse</p> <p>(39) Movable Chain pulley 2 MT, 3 MT, 5 MT. capacity</p>	
29	125 KVA D.G. set	125 KVA D.G. set for backup power supply complete with control panel, circuit breakers, change over switch, etc.	1 Complete set

## ***Schedule "B"***

Schedule B include

- a) Cover letter – Financial Bid
- b) Format for Financial Bid – According to Schedule A1.

**A) Cover letter – Financial Bid**

To  
The Director,  
Jalpaiguri Siliguri Plastic Engineering Centre,  
327, Bidhan Road,  
Near Auto Stand,  
Siliguri-734 001. (W.B.)

**Sub: Financial Bid Cover Letter**  
**Ref: NIT No. JSPEC/Tender/P&M/02– 2<sup>nd</sup> Call dated 30.04.2014.**

Sir,  
I/We, the undersigned, are pleased to submit our Financial Bid for appointment as Supplier of Plant & Machineries in accordance with Tender under reference.

My/Our Financial Bid is unconditional and we acknowledge that any condition attached to the financial bid shall result in rejection of our proposal. My/Our Financial bid shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity of the Tender.

I/We understand that you are not bound to accept any Proposal you receive

Yours sincerely,

Authorised Signatory (In full and initials)  
Name and Title of Signatory  
Name of the Agency  
Address

Date:  
Place:

**B) Format for Financial Bid – According to Schedule A1.**

SL. NO.	NAME OF PLANT & MACHINERY/TESTING MACHINE/MEASURING &	SPECIFICATION	QTY.	UNIT	QUOTED UNIT RATE IN RS	TOTAL AMOUNT	
						IN	IN

	HAND TOOLS/DG SET					FIGURE	WARDS

Total Amount for Annexure No.....

Total Bid value combining all annexure (in INR):.....

**[Please furnish separate format for each annexure]**