

Bid invitation

Information

Description:EMN3/H&P/1050010877/PM OF CNC
GEAR CUT
Bid invitation number:6300036829

Bid invitation rules

Bid invitation currency: INR
Timezone: UTC+53
Submission period: 17.12.2021 17:00:00
Tech Opening date: 17.12.2021 17:01:00
Created On: 01.12.2021 03:38:53

Bid invitation text:

GENERAL TERMS & CONDITIONS:

1. Delivery Terms: FDD/ FOR BEML, KGF.
2. Payment Terms: 60 days receipt & acceptance of item. For MSME , 45 days.credit
3. Micro & small enterprise bidders to indicate Udyog Aadhaar Memorandum number (UAM) and declaration of UAM on CPPP in their bid.
4. Quote should be valid for minimum 60 days from the date of Bid opening. Bids with validity of less than 60 days are liable for rejection.
5. Indicate GSTIN and applicable GST in their bid.
6. Indicate 08 Digit HSN code for the Materials/ 06 Digit SAC code for service
7. Indicate the time requirement for supply the items/Time required for complete the work
8. Indicate warranty applicable for the material
- 9.Indicate complete specification, make, and other connected details in their bid. If not indicated in the bid liable for rejection.
10. L-1 evaluation will be based on landed cost of technically accepted bids.
- 11.Firm has to quote only for the item as per tender specification. If any deviation in technical specification. Beml reserve the right to reject the offer

NOTE:-

- 1).To upload Bid in e- Bidding system - If you need any type of assistance, Please contact Mr. Krishna Mohan (Ph No – 080- 22963269 / 22963141 & Email – admin.srm@beml.co.in).
- 2) Please contact given below mail IDs & Ph.No. for any type of technical clarification.

i) hn@beml.co.in & ii) hmnp@beml.co.in

PH-08153-279315

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Information

Description:EMN3/H&P/1050010877/PM OF CNC GEAR CUT

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PM OF CNC GEAR CUTTING/GRINDING M/Cs:
Category – 1: CNC Gear Cutting/ Grinding Machines

1. 438501: Spline Hobber (P250) Pfauter
2. 441501: Spiral BEVEL Gear Generation (G-635) Gleason
3. 440501: Gear Shaper LFS 1000 Leibherr
4. 600HC: SAMPUTENSILI GEAR GRINDING M/C

Details of Preventive Maintenance Activity to be Carried Out:

Category – 1: CNC Gear Cutting Machine

A. MECHANICAL:

1. MACHINE LEVEL AND GEOMETRICAL ALIGNMENT OF MACHINE:
 - a)GEOMETRICAL ALIGNMENT OF MACHINE TO BE CHECKED & RECTIFIED
2. SPINDLE HOB & WORK TABLE:
 - a. CHECK FOR PROPER FUNCTIONING OF BELT/GEAR DRIVE
 - b. CHECK SYNCHRONOUS ROTATION OF SPINDLE HOB & WORK TABLE
 - c. CHECK FOR LUBRICATION FOR HOB /TABLE DRIVE RECTIFY FOR ANY ABNORMALITY
3. GUIDEWAYS:
 - a. CLEANING OF ALL GUIDEWAYS
 - b. CHECK CONDITION OF ALL AXES GUIDE WAYS
 - c. CHECK FOR LUBRICATION
 - d. CHECK CONDITION OF WIPERS
 - e. CHECK FOR PROPER FUNCTIONING OF TELESCOPIC COVERS
4. AXES FEED DRIVE /BALL SCREWS ASSY:
 - a. CHECK CONDITION OF ALL BALL SCREWS & NUT .
 - b. CHECK CONDITION OF ANGULAR CONTACT BEARINGS
 - c. CHECK FOR COUPLING
 - d. CHECK FOR LUBRICATION OF BALL SCREWS & GUIDEWAYS.REPLACEMENT OF METERING INSERTS/PIPES/CONNECTIONS.
5. TAIL STOCK/ STEADY REST:
 - a. CHECK FOR PROPER FUNCTIONING OF TAIL STOCK/ STEADY REST.
6. AIR SYSTEM:
 - a. REPLACE PRESSURE GUAGE
 - b. OVERHAULING AIR REGULATOR
 - c. FILTER CLEANING
 - d. ARREST LEAKAGES.

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7. HYDRAULIC SYSTEM:

- a. CLEANING & CHECKING FOR PROPER FUNCTIONING OF PUMP, VALVES, OIL FILTERS, SUCTION STRAINER. Replacement OF HYD OIL, CHECKING OF SYSTEM PRESSURE/FLOW.
- b. ARREST LEAKAGES BY REPLACING HYD HOSE PIPES, FITTINGS, O-RINGS, SEALS ETC.

8. LUBRICATION SYSTEM:

- a. ENSURE LUBRICATION AT ALL POINTS. CLEANING OF TANK/LUB LINES/METERING INSERTS, OIL FILLING.
2. CHECK FOR PROPER FUNCTION OF LUB UNIT, PUMP, PRESSURE.

9. COOLANT SYSTEM:

- a. CLEAN COOLANT TANK, PUMP, FILTER ETC.
- b. REPLACEMENT OF STRAINER/FILTERS IF REQD.
- c. ARREST LEAKAGES BY CHANGING DEFECTIVE PARTS , FITTINGS

10 CHIP CONVEYOR :

- a. CHECK FOR PROPER FUNCTIONING OF CHIP CONVEYOR/GEAR BOX/DRIVE ELEMENTS ETC.

B. ELECTRICAL:

1. POWER SUPPLY

- a. CHECK FOR POWER SUPPLY CABLES AND SWITCH GEAR ITEMS FOR PROPER FUNCTIONING REPLACE FAULTY/DEFECTIVE ITEMS.
- b. CHECK INCOMING POWER SUPPLY
- c. CHECK/ADJUST/ CONTROL VOLTAGE 24V/110V/220V

2. ELECTRICAL CABINET :

- a. CHECK ELECTRICAL PANEL
FOR PROPER WIRING. REPLACE WIRES/CABLES IF FOUND DEFECTIVE
- b. CLEAN ELECTRICAL CABINET WITH VACUUM CLEANER
- c. CHECK ALL FUSES/FUSE LINKS & THEIR RATING AS PER CKT.
REPLACE IF DEFECTIVE
- d. CHECK WORKING OF ALL PUSH BUTTON, ISOLATING SWITCH, INDICATOR LAMP ETC REPLACE IF DEFECTIVE.
- e. CHECK PROPER FUNCTION OF ALL ELECTRICAL ITEMS ESPECIALLY CONTACTORS, PROXIMITY SWITCH & LIMIT SWITCHES AND CLEAN CONTACT AREA. REPLACE IF FOUND DEFECTIVE.
- f. CHECK ALL OVERLOAD RELAY FOR PROPER SETTING AS PER CKT.
- g. CLEAN ALL PCB
- h. TIGHTEN ALL THE TERMINALS
- i. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER FUNCTION. DO THE REQUIRED ADJUSTMENTS.

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j. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER FUNCTION.

3. MOTORS:

a. CLEAN / REPLACE CARBON BRUSHES OF DC SERVO MOTORS. TAKE CORRECTIVE ACTION.

4. EARTHING: CHECK FOR PROPER EARTHING RECTIFY IF REQUIRED -

5. CHECK FOR PROPER FUNCTIONING OF VOLTAGE STABILISER, ISOLATION TRANSFORMER CONNECTIONS,SAFE TRIP,OUTPUT.CLEAN THE PCB's, TRANSFORMERS & TIGHTEN ALL THE INPUT/OUTPUT CONNECTIONS.

6. CONTROL PANNEL / MCP

- a. CLEANING OF CNC SYSTEM PCB'S & CONTROL PANNEL.
- b. CHECK FOR INPUT VOLTAGES.
- c. CHECK FOR FUNCTIONING OF COOLING FANS.
- d. CHECK FOR BATTERY VOLTAGE.

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PM OF GEAR CUTTING/HOBBING/SHAPER M/Cs:
Category – 2: Gear Cutting/ Hobbing/Shaper Machines:

- 1. 402512: Gear Hobbing (H400) HMT
- 2. 402501: Gear Hobbing (H400) HMT
- 3. 402502: Gear Hobbing (H400) HMT
- 4. 402503: Gear Hobbing (H400) HMT
- 5. 404501: Gear Hobber (P-251) Cooper
- 6. 206561: UNIVERSAL GRINDING (WMW)- HYD SHOP- IV BAY.
- 7. 409501: Gear Shaper ((82/22) Fellows
- 8. 409502: Gear Shaper ((82/22) Fellows
- 9. 435501: Gear Shaping (OHA50) TOS
- 10. 416501: St. Bevel Gear Generation (G-14) Gleason
- 11. 416502: St. Bevel Gear Generation (G-14) Gleason
- 12. 415501: Spiral Bevel Gear Generation (G28) Gleason
- 13. 415502: Spiral Bevel Gear Generation (G28) Gleason
- 14. 404516: Gear Hobbing (P251) Cooper (Hyd. Shop)
- 15. 402561: Gear Hobbing (H400) HMT (Hyd. Shop)

DETAILS OF PREVENTIVE MAINTENANCE ACTIVITY TO BE CARRIED OUT:

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A MECHANICAL

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I MACHINE LEVEL AND GEOMETRICAL ALIGNMENT OF MACHINE:

- a. Machine level to be corrected/ alignment of machine to be checked & rectified as per test chart

II SPINDLE HOB & WORK TABLE:

- a. Check for proper functioning of belt/gear drive
- b. Check synchronous rotation of spindle hob & work table
- c. Check for lubrication for hob/table drive rectify for any abnormality

III GUIDEWAYS Check / Clean / Replace / Rectify:

- a. Condition of all axes guide ways
- b. Lubrication
- c. Condition of wipers
- d. Proper functioning of telescopic covers

IV AXES FEED DRIVE /LEAD SCREWS ASSY: Check/Clean/Replace/Rectify:

- a. Condition of all lead screws & nut .
- b. Check condition of bearings
- c. Check for lubrication of leads screws & guide ways. Change defective metering inserts/pipes/connections.

V TAIL STOCK:

- a. Check for proper functioning of tail stock. Do the required adjustments.

VI AIR SYSTEM Check & Adjust/Rectify:

- a. Air pressure & gauge
- b. Air regulator overhauling
- c. Filter cleaning
- d. Leakages

VII HYDRAULIC SYSTEM:

- a. Hydraulic system cleaning & checking for proper functioning of pump, valves, oil filters, suction strainer. Change of hyd. Oil, checking of system pressure. Arrest leakages by changing defective hose pipes, fittings, o-rings, seals etc.

VIII LUBRICATION SYSTEM:

- a. Ensure lubrication to all points. Cleaning of tank/lublines/metering inserts, oil filling check for proper function of lub unit,pump, and pressure. Do necessary rectification

IX COOLANT SYSTEM:

- a. Clean coolant tank, pump, filter etc.
- b. Arrest leakages by changing defective parts, fittings

X CHIP CONVEYOR:

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a. Check for proper functioning of chip conveyor/gear box/drive elements etc.

B. ELECTRICAL

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1. POWER SUPPLY :

- a. Check power supply cables and switch gear items for proper functioning. Replace faulty/defective items.
- b. Check incoming power supply
- c. Check/adjust/ correct control voltage 24v/110v/220v

2. ELECTRICAL CABINET:

- a. Check electrical panel for proper wiring. Replace wires/cables if found defective
- b. Clean electrical cabinet with vacuum cleaner
- c. Check all fuses/fuse links & their rating as per CKT. Replace if defective
- d. Check working of all push button, isolating switch, indicator lamp etc replace if defective.
- e. Check proper function of all electrical items especially contactors, proximity switch & limit switches and clean contact area. Replace if found defective.
- f. Check all overload relay for proper setting as per CKT.
- g. Clean all PCB
- h. Tighten all the terminals
- i. Check cooling fan/heat exchanger/a/c unit for proper function. Do the required adjustments.
- j. Check cooling fan/heat exchanger/a/c unit for proper function. Do the required adjustments.

3. MOTORS:

- a. Clean/replace carbon brushes of dc servo motors & slip ring motors. Take corrective action, if any abnormality noticed.

4. EARTHING:

- a. Check for proper earthing rectify if required

5. CHECK FOR PROPER FUNCTIONING OF VOLTAGE STABLISER, ISOLATION TRANSFORMER CONNECTIONS, SAFE TRIP, OUTPUT.

- a. Clean the PCB's, transformers & tighten all the input/output connections.

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PM OF GEAR GRINDING/SHAVING/LAPPING M/Cs

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Category – 3: Gear Grinding/Shaving/ Lapping Machines

1. 424501: Gear Grinding (AZA) Reishaver
2. 424502: Gear Grinding (AZA) Reishaver
3. 424561: Gear Grinder (AZA) Reishauer, (Hyd. Shop)
4. 430502: Spline Grinder (SWZ 10NPC-K) ELB
5. 202502: Universal Grinding WMW
6. 425501: Hypoid Lapper (G516) Gleason
7. 425502: Hypoid Lapper (RO1189) Gleason
8. 417501: Gear Shaver(Int.) (GCX 587) Redring
9. 418501: Gear Shaver(Ext.) (GCX 587) Redring
10. 201502: Universal Grinding WMW
11. 202501: Universal Grinding WMW
12. 202503: Universal Grinding WMW
13. 202504: Universal Grinding WMW
14. 217501: Tos Grinding TOS

1. MECHANICAL

1. CHECK FOR MACHINE LEVEL AND GEOMETRICAL ALIGNMENT OF MACHINE
2. GEOMETRICAL ALIGNMENT OF MACHINE TO BE CHECKED & RECTIFIED AS PER TEST CHART

2. DRESSING UNIT: CHECK & RECTIFY

- a. FACE DRESSING
- b. OD DRESSING
- c. CONDITION
- d. LUBRICATION

3. SPINDLE / GRINDER & WORK TABLE: CHECK / RECTIFY:

- a. FOR PROPER FUNCTIONING OF BELT/GEAR DRIVE
- b. SYNCHRONOUS ROTATION OF SPINDLE /GRINDER & WORK TABLE
- c. CHECK FOR LUBRICATION FOR HOB /TABLE DRIVE :RECTIFY FOR ANY ABNORMALITY

4. HYDRAULICS/ LUBRICATION : CHECK & RECTIFY

- a. CLEANING OF SUCTION FILTER,DIRECTION CONTROL VALVE,STRAINERS ETC.IF REQUIRED TO BE REPLACED
- b. PROPER FUNCTION OF LUB PUMP
- c. LUBRICATION OF M/C PARTS

5. LEAD SCREW & NUT ASSEMBLY: CHECK & RECTIFY

- a. CONDITION OF BEARINGS

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6. COOLANT & COOLANT FILTERATION UNIT :

- a. CLEANING OF COOLANT TANK (BASE PLATE), PUMP & COOLANT FILTERATION UNIT
- b. ARREST OF COOLANT LEAKAGE BY CHANGING DEFECTIVE HOSE PIPES, CONNECTIONS ETC.

1. POWER SUPPLY:

- a. CHECK POWER SUPPLY CABLES AND SWITCH GEAR ITEMS FOR PROPER FUNCTIONING .REPLACE FAULTY/DEFECTIVE ITEMS.
- b. CHECK INCOMING POWER SUPPLY
- c. CHECK/ADJUST/ CORRECT CONTROL VOLTAGE 24V/110V/220V

2. ELECTRICAL CABINET :

- a. CHECK ELECTRICAL PANEL
FOR PROPER WIRING. REPLACE WIRES/CABLES IF FOUND DEFECTIVE
- b. CLEAN ELECTRICAL CABINET WITH VACUUM CLEANER
- c. CHECK ALL FUSES/FUSE LINKS & THEIR RATING AS PER CKT.
REPLACE IF DEFECTIVE
- d. CHECK WORKING OF ALL PUSH BUTTON, ISOLATING SWITCH, INDICATOR LAMP ETC REPLACE IF DEFECTIVE.
- e. CHECK PROPER FUNCTION OF ALL ELECTRICAL ITEMS ESPECIALLY CONTACTORS, PROXIMITY SWITCH & LIMIT SWITCHES AND CLEAN CONTACT AREA. REPLACE IF FOUND DEFECTIVE.
- f. CHECK ALL OVERLOAD RELAY FOR PROPER SETTING AS PER CKT.
- g. CLEAN ALL PCB
- h. TIGHTEN ALL THE TERMINALS
- i. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER FUNCTION. DO THE REQUIRED ADJUSTMENTS.
- j. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER FUNCTION. DO THE REQUIRED ADJUSTMENTS.

3. AXES REF. POINT :

- a. CHECK ALL AXES REFERENCE POINT REPEATIBILITY.

4. MOTORS: CLEAN / REPLACE CARBON BRUSHES OF DC SERVO MOTORS & CHECK AC SERVO MOTORS & SLIPRING MOTORS. TAKE CORRECTIVE ACTION, IF ANY ABNORMALITY NOTICED.

5. EARTHING: CHECK FOR PROPER EARTHING RECTIFY IF REQUIRED -

6. CHECK FOR PROPER FUNCTIONING OF VOLTAGE STABILISER., ISOLATION TRANSFORMER CONNECTIONS, SAFE TRIP, OUTPUT.
CLEAN THE PCB's, TRANSFORMERS & TIGHTEN ALL THE INPUT/OUTPUT CONNECTIONS.

7. CHECK POWER SUPPLY MODULES & ANY ABNORMALITY TO RECTIFY & ENTER IN PM CHECK SHEET.

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PM OF SMALL & MEDIUM M/Cs

Category – 4: Critical CNC MACHINES.

A. MECHANICAL:

1. MACHINE LEVEL AND GEOMETRICAL ALIGNMENT OF MACHINE:

a)GEOMETRICAL ALIGNMENT OF MACHINE TO BE CHECKED & RECTIFIED

2. SPINDLE HOB & WORK TABLE:

a. CHECK FOR PROPER FUNCTIONING OF BELT/GEAR DRIVE

b. CHECK SYNCHRONOUS ROTATION OF SPINDLE HOB & WORK TABLE

c. CHECK FOR LUBRICATION FOR HOB /TABLE DRIVE RECTIFY FOR ANY ABNORMALITY

3. GUIDEWAYS:

a. CLEANING OF ALL GUIDEWAYS

b. CHECK CONDITION OF ALL AXES GUIDE WAYS

c. CHECK FOR LUBRICATION

d. CHECK FOR BACKLASH

e. CHECK CONDITION OF WIPERS

f. CHECK FOR PROPER FUNCTIONING OF TELESCOPIC COVERS

4. AXES FEED DRIVE /BALL SCREWS ASSY:

a. CHECK CONDITION OF ALL BALL SCREWS &NUT .CHECK ITS ALIGNMENT, RUN OUT & PRE-LOADING & BACKLASH..DO NECESSARY ADJUSTMENTS

b. CHECK CONDITION OF ANGULAR CONTACT BEARINGS

c. CHECK FOR COUPLING

d. CHECK FOR LUBRICATION OF BALL SCREWS & GUIDEWAYS. CHANGE DEFECTIVE METERING INSERTS/PIPES/CONNECTIONS.

5. TAIL STOCK/ STEADY REST:

a. CHECK FOR PROPER FUNCTIONING OF TAIL STOCK/ STEADY REST.

b. DO THE REQUIRED ADJUSTMENTS & ARREST LEAKAGES.

6. AIR SYSTEM:

a. REPLACE PRESSURE GUAGE

b. OVERHAULING AIR REGULATOR

c. FILTER CLEANING

d. ARREST LEAKAGES.

7. HYDRAULIC SYSTEM:

a. CLEANING & CHECKING FOR PROPER FUNCTIONING OF PUMP, VALVES, OIL FILTERS,SUCTION STRAINER.CHANGE OF HYD. OIL,CHECKING OF SYSTEM PRESSURE/FLOW.

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b. ARREST LEAKAGES BY CHANGING HOSE PIPES, FITTINGS,O-RINGS,SEALS ETC.

8. LUBRICATION SYSTEM:

a. ENSURE LUBRICATION AT ALL POINTS.CLEANING OF TANK/LUB LINES/METERING INSERTS,OIL FILLING.

2. CHECK FOR PROPER FUNCTION OF LUB UNIT,PUMP,PRESSURE.

9. COOLANT SYSTEM:

a. CLEAN COOLANT TANK, PUMP,FILTER ETC.

b. REPLACEMENT OF STRAINER/FILTERS IF REQD.

c. ARREST LEAKAGES BY CHANGING DEFECTIVE PARTS , FITTINGS

10 CHIP CONVEYOR :

a. CHECK FOR PROPER FUNCTIONING OF CHIP CONVEYOR/GEAR BOX/DRIVE ELEMENTS ETC.

B. ELECTRICAL:

1. POWER SUPPLY

a. CHECK POWER SUPPLY CABLES AND SWITCH GEAR ITEMS FOR PROPER FUNCTIONING
REPLACE FAULTY/DEFECTIVE ITEMS.

b. CHECK INCOMING POWER SUPPLY

c. CHECK/ADJUST/ CORRECT CONTROL VOLTAGE 24V/110V/220V

2. ELECTRICAL CABINET :

a. CHECK ELECTRICAL PANEL

FOR PROPER WIRING. REPLACEWIRES/CABLES IF FOUND DEFECTIVE

b. CLEAN ELECTRICAL CABINET WITH VACCUM CLEANER

c. CHECK ALL FUSES/FUSE LINKS & THEIR RATING AS PER CKT.
REPLACE IF DEFECTIVE

d. CHECK WORKING OF ALL PUSH BUTTON,ISOLATING SWITCH,INDICATOR
LAMP ETC REPLACE IF DEFECTIVE.

e. CHECK PROPER FUNCTION OF ALL ELECTRICAL ITEMS ESPACIALLY
CONTACTORS, PROXIMITY SWITCH & LIMIT SWITCHES AND CLEAN
CONTACT AREA.REPLACE IF FOUND DEFECTIVE.

f. CHECK ALL OVERLOAD RELAY FOR PROPER SETTING AS PER CKT.

g. CLEAN ALL PCB

h. TIGHTEN ALL THE TERMINALS

i. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER
FUNCTION.DO THE REQUIRED ADJUSTMENTS.

j. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER FUNCTION.DO THE
REQUIRED ADJUSTMENTS.

3. AXES REF. POINT :

a. CHECK ALL AXES REFERANCE POINT REPEATIBILITY.

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4. MOTORS:

- a. CLEAN / REPLACE CARBON BRUSHES OF DC SERVO MOTORS. TAKE CORRECTIVE ACTION, IF ANY ABNORMALITY NOTICED.

5. EARTHING: CHECK FOR PROPER EARTHING RECTIFY IF REQUIRED -

6. CHECK FOR PROPER FUNCTIONING OF VOLTAGE STABILISER, ISOLATION TRANSFORMER CONNECTIONS,SAFE TRIP,OUTPUT.CLEAN THE PCB's, TRANSFORMERS & TIGHTEN ALL THE INPUT/OUTPUT CONNECTIONS.

C:CNC SYSTEM/ELECTRONICS:

- a. SPINDLE DRIVE: CHECK SPINDLE VARIOUS SPEEDS, IF ANY ABNORMALITY FOUND, RECTIFY.
- b. AXES DRIVE CHECK FOR PROPER FUNCTIONING OF DRIVE..CHECK FOR ANY LOOSE CONNECTION. CLEAN ALL PCB CARDS.
- c. LINEAR SCALE/ ENCODER: CHECK/ADJUST / CLEAN/ REPLACE IF ANY ABNORMALITY NOTICED.
- d. FEED BACK DEVICE SWITCHES ,SOLENOID VALVES ETC: CHECK / CLEAN / REPLACE IF FOUND ABNORMALITY.

5. CONTROL PANNEL / MCP

- a. CLEANING OF CNC SYSTEM PCB'S & CONTROL PANNEL.
- b. CHECK FOR INPUT VOLTAGES.
- c. CHECK FOR FUNCTIONING OF COOLING FANS.
- d. CHECK FOR BATTERY VOLTAGE.
- e. CHECK FOR BATTERY VOLTAGE.

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PM OF LARGE M/Cs

Category – 4: SMALL & MEDIUM MACHINES

- 1.BR 6 DRILL CENTRE TR-1 (75501)
- 2.YDC-96 DRILL CENTRE TR-1 (071501)
- 3.CARL ZEISS TR-1 (CMM)
- 4.GLEASON GEAR HOBGING TR-1 (600HC)
- 5.GDM-42 TURN CENTRE TR-1 (062501)
- 6.GDM 65 TURN CENTRE HYD 1 ST BAY (063561)

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7.KELLENBERGER GRIND - 1 HYD 1 ST BAY(229562)

8.KELLENBERGER GRIND - 2 HYD 1 ST BAY(229563)

9.GDM-90 TURN CENTRE HYD 3RD BAY(064561)

Category – 5: LARGE CNC MACHINES

1 SBCNC -35 TURN CENTRE TR-1 2ND BAY (050501)

2 TC-500 HMC CNC (354501)

3 VTL -1000 TR-2 (541067)

4 PRAGA-630 HMC TR -1 2ND BAY (354503)

5 PRAGA-630 HMC TR -1 2ND BAY (354504)

6 WSU12 TURN CENTRE CNC (051501)

7 WSU12 TURN CENTRE CNC (051502)

8 VTC VMC HYD 2ND BAY (457561)

9 PRAGA 800 HMC HYD 3RD BAY (355561)

10 SB CNC-35 TURN CENTRE HYD 4TH BAY (050561)

11 PRAGA-630 HMC HYD 2ND BAY (354561)

12 VTC VMC HYD 2ND BAY (457562)

13 SBCNC-55 TURN CENTRE P/L (50563)

14 HMT DRILL CENTRE P/L (NEW HMT)

15 BFW VMC TR-2 (BMV-65)

16 BFW VTL - CNC TR-2 (VTL NEW)

17 FSS-80 MILL CENTRE TR-1, 1 ST BAY (194501)

18 PROTECK -1 P/L (PRO-1)

19 PROTECK -2 P/L (PRO-2)

20 PROTECK -3 P/L (PRO-3)

Category – 6: HONNING MACHINES

1 NAGEL HONNING P/L 292562

2 NAGEL HONNING P/L 292563

3 NAGEL HONNING HYD IV BAY : 292561

4 YAZDA HONNING HYD IV BAY : 291561

5 KADIA HONNING HYD III BAY : 293561

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Details of Preventive Maintenance Activity to be Carried Out:

Category – 4/5/6: Small/ Medium/Large/Honning MACHINES.

A. MECHANICAL:

1. MACHINE LEVEL AND GEOMETRICAL ALIGNMENT OF MACHINE:

- a)GEOMETRICAL ALIGNMENT OF MACHINE TO BE CHECKED & RECTIFIED

2. SPINDLE HOB & WORK TABLE:

- a. CHECK FOR PROPER FUNCTIONING OF BELT/GEAR DRIVE
- b. CHECK SYNCHRONOUS ROTATION OF SPINDLE HOB & WORK TABLE
- c. CHECK FOR LUBRICATION FOR HOB /TABLE DRIVE RECTIFY FOR ANY ABNORMALITY

3. GUIDEWAYS:

- a. CLEANING OF ALL GUIDEWAYS
- b. CHECK CONDITION OF ALL AXES GUIDE WAYS
- c. CHECK FOR LUBRICATION
- d. CHECK CONDITION OF WIPERS
- e. CHECK FOR PROPER FUNCTIONING OF TELESCOPIC COVERS

4. AXES FEED DRIVE /BALL SCREWS ASSY:

- a. CHECK CONDITION OF ALL BALL SCREWS & NUT .
- b. CHECK CONDITION OF ANGULAR CONTACT BEARINGS
- c. CHECK FOR COUPLING
- d. CHECK FOR LUBRICATION OF BALL SCREWS & GUIDEWAYS.REPLACEMENT OF METERING INSERTS/PIPES/CONNECTIONS.

5. TAIL STOCK/ STEADY REST:

- a. CHECK FOR PROPER FUNCTIONING OF TAIL STOCK/ STEADY REST.

6. AIR SYSTEM:

- a. REPLACE PRESSURE GUAGE
- b. OVERHAULING AIR REGULATOR
- c. FILTER CLEANING
- d. ARREST LEAKAGES.

7. HYDRAULIC SYSTEM:

- a. CLEANING & CHECKING FOR PROPER FUNCTIONING OF PUMP, VALVES, OIL FILTERS,SUCTION STRAINER. Replacement OF HYD OIL,CHECKING OF SYSTEM PRESSURE/FLOW.
- b. ARREST LEAKAGES BY REPLACING HYD HOSE PIPES, FITTINGS,O-RINGS,SEALS ETC.

8. LUBRICATION SYSTEM:

- a. ENSURE LUBRICATION AT ALL POINTS.CLEANING OF TANK/LUB LINES/METERING INSERTS,OIL

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FILLING.

2. CHECK FOR PROPER FUNCTION OF LUB UNIT,PUMP,PRESSURE.

9. COOLANT SYSTEM:

- a. CLEAN COOLANT TANK, PUMP,FILTER ETC.
- b. REPLACEMENT OF STRAINER/FILTERS IF REQD.
- c. ARREST LEAKAGES BY CHANGING DEFECTIVE PARTS , FITTINGS

10 CHIP CONVEYOR :

- a. CHECK FOR PROPER FUNCTIONING OF CHIP CONVEYOR/GEAR BOX/DRIVE ELEMENTS ETC.

B. ELECTRICAL:

1. POWER SUPPLY

- a. CHECK FOR POWER SUPPLY CABLES AND SWITCH GEAR ITEMS FOR PROPER FUNCTIONING
REPLACE FAULTY/DEFECTIVE ITEMS.
- b. CHECK INCOMING POWER SUPPLY
- c. CHECK/ADJUST/ CONTROL VOLTAGE 24V/110V/220V

2. ELECTRICAL CABINET :

- a. CHECK ELECTRICAL PANEL
FOR PROPER WIRING. REPLACEWIRES/CABLES IF FOUND DEFECTIVE
- b. CLEAN ELECTRICAL CABINET WITH VACCUM CLEANER
- c. CHECK ALL FUSES/FUSE LINKS & THEIR RATING AS PER CKT.
REPLACE IF DEFECTIVE
- d. CHECK WORKING OF ALL PUSH BUTTON,ISOLATING SWITCH,INDICATOR
LAMP ETC REPLACE IF DEFECTIVE.
- e. CHECK PROPER FUNCTION OF ALL ELECTRICAL ITEMS ESPACIALLY
CONTACTORS, PROXIMITY SWITCH & LIMIT SWITCHES AND CLEAN
CONTACT AREA.REPLACE IF FOUND DEFECTIVE.
- f. CHECK ALL OVERLOAD RELAY FOR PROPER SETTING AS PER CKT.
- g. CLEAN ALL PCB
- h. TIGHTEN ALL THE TERMINALS
- i. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER
FUNCTION.DO THE REQUIRED ADJUSTMENTS.
- j. CHECK COOLING FAN/HEAT EXCHANGER/A/C UNIT FOR PROPER FUNCTION.

3. MOTORS:

- a. CLEAN / REPLACE CARBON BRUSHES OF DC SERVO MOTORS. TAKE CORRECTIVE ACTION.

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4. EARTHING: CHECK FOR PROPER EARTHING RECTIFY IF REQUIRED -

5. CHECK FOR PROPER FUNCTIONING OF VOLTAGE STABILISER, ISOLATION TRANSFORMER CONNECTIONS,SAFE TRIP,OUTPUT.CLEAN THE PCB's, TRANSFORMERS & TIGHTEN ALL THE INPUT/OUTPUT CONNECTIONS.

6. CONTROL PANNEL / MCP

- a. CLEANING OF CNC SYSTEM PCB'S & CONTROL PANNEL.
- b. CHECK FOR INPUT VOLTAGES.
- c. CHECK FOR FUNCTIONING OF COOLING FANS.
- d. CHECK FOR BATTERY VOLTAGE.

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TERMS & CONDITIONS:

1.THE DETAILED SCHEDULE FOR PREVENTIVE MAINTENANCE ACTIVITY SHALL BE PROVIDED BY BEML AFTER AWARD OF CONTRACT.

2.ALL HAND TOOLS, MEASURING & TESTING INSTRUMENTS ETC. TO BE ARRANGED BY FIRM.

3. THE FIRM SHALL ENSURE POSITIONING OF SUFFICIENT NOS. OF EXPERTS/ENGINEERS/TECHNICIANS AT OUR WORKS FOR PREVENTIVE MAINTENANCE ACTIVITY AS PER SCHEDULE.

4. ALL THE REQUIRED SPARES FOR REPLACEMENT DURING PM WILL BE UNDER BEML SCOPE.HOWEVER, IF NON-AVAILABILITY IN BEML STOCK, FIRM SHOULD ARRANGE FOR THE SAME & THE BILL WILL BE RE-EMBURSED AGAINST CERTIFICATION / RELEASE OF PO.

5. THE FIRM SHOULD CARRY PM AS PER THE SCHEDULE IN THE CHECKLIST FOR HAVING CARRIED OUT & COORDINATED WITH ENGINEER IN-CHARGE. THISSHALL BE EVIDENT FOR RECOMMENDING THE PAYMENT.

6. AFTER COMPLETION OF PREVENTIVE MAINTENANCE AS PER SCHEDULE, THE SAME SHALL BE CERTIFIED THRU' JOINT INSPECTION BY THE FIRM/BEML & PRODUCED FOR PAYMENT TOWARDS SERVICES/CONTRACT.

7. PREVENTIVE MAINTENANCE SHOULD BE CARRIED OUT IN I/II SHIFT ONLY i.e 7.00 TO 3.00PM & 3.00 TO 11.00PM.

8. FIRM SHOULD CARRY OUT PM AS PER THE SCHEDULE . IN CASE OF PRODUCTION EXIGENCY, IF THE MACHINE ARE NOT RELEASED THE SAME SHOULD BE CARRIED ON THE ALTERNATE DATE IN CO-ORDINATION WITH ENGINEER INCHARGE MAINTENANCE & PRODUCTION.

9. PM CHECK LIST SHOULD BE PREPARED ACCORDING TO CATEGORY OF MACHINES AGAINST

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COMPLETION OF PM ON INDIVIDUAL MACHINES . CHECKLIST SHOULD BE CO-ORDINATED BY THE MAINTENANCE INCHARGE.

10. PAYMENT WILL BE MADE ON MONTHLY BASIS, BASED ON THE NO OF MACHINE BEING CARRIED OUT PM DURING THE MONTH & AGAINST CERTIFICATIONBY MAINTENANCE

11. THE FIRM SHOULD DEPLOY MINIMUM 4 SEMI SKILLED TECHNICIANS & 01 SKILLED (SUPERVISOR) TO EXECUTE THE PM ACTIVITIES.

GENERAL TERMS & CONDITIONS:

1. The work should be carried out with high degree of efficiency without damaging the company properties.
2. The contractor or his authorized representative should be present in the work spot during working hour to receive instructions from the Engineer-in- charge to carry out the preventive maintenance work every day effectively and satisfactorily.
3. Your quotation/rate for carrying out the work should include minimum wage payable per labor per day as per minimum wage act, ESI, PF, EDLI charges, etc, one day leave with wages for every 20 days of work per labour and three paid national holidays and 09 festival holidays for each labour per year . The rate shall include bonus payable to the labourers and all the other statutory taxes as applicable.
4. There will be no price negotiations if rates received for technically acceptable offers are considered reasonable.
5. The Contractor should employ only ESI /PF registered workmen/engineer for work inside the factory.
6. Contractor should maintain registers and records required for ESI/PF payment of wages, etc. under the statutes and produce them for verification as and when called for by Company/Inspecting authority.
7. PAYMENT: On Monthly basis Payment will be made machine wise after successful completion of preventive maintenance work and submit the bills to Plant Maintenance department for payment.
8. ACCIDENT/INJURY: In the event of any accident/injury, disablement, the Contractor shall arrange to pay the requisite compensation. BEML will not be responsible for any injury caused to your men while on duty. They should be suitably covered under ESI, PF & other statutory acts.
9. The work has to be carried out in First and Second Shifts everyday for all the seven days in a week including Sundays and Holidays as directed by the Officer-in-charge.
10. If the Contract Laborers have to be retained on overtime work on any day. Overtime payment as applicable has to be made. Further the Contract Laborers should not be assigned to work continuously for more than ten days without giving one day's rest as provided under the Factories Act 1948.

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11. Your quotation should be kept valid for minimum of 120 days from the date of closing of the tender.
12. Management reserves the right to ask the contractor to dispense with the services of any laborers, who is reported to be of doubtful integrity.
13. Firm should bring all Tools, Measuring equipment, Test piece etc. required for Preventive Maintenance Activity.
14. The contractor shall be deemed to have studied the scope of works thoroughly before offering his unit rates to ensure that the complete work is carried out as per specifications in accordance with the BEML standards. The contractor/Firm can visit the site before offering his unit rates if necessary.
15. All disputes and differences arising out of in any way covering this contract whatsoever shall be referred for decision to the Chief General Manager of BEML whose decision shall be final and binding on parties.
16. The Contract is for a period of TWO year from the date of acceptance letter is issued with an option to the Company (BEML) to extend if further periods on the terms and conditions with the mutual consent of the Contractor.
17. The contract may be terminated by the company at any time for breach of contract on the part of Contractor. It is being not obligatory on the part of the Company (BEML) to assign any causes or reason for such termination. The Contractor shall not be entitled to claim any compensation or damage for such termination.

NOTE:

1. THE FIRM HAS TO QUOTE PRICES SEPERATELY FOR EACH SERVICE LINE ITEM PER JOB AS PER OUR ENQUIRY.
2. Unit 'JOB' indicates Unit 'Time',
Example: PM of 'Spline Hobber M/C (P-230) – 2 JOB' indicates
Preventive Maintenance of 'Spline Hobber M/C (P-230) to be carried out 2 Times in a year.
3. AS THIS IS PACKAGE WORK, FIRM HAS TO QUOTE FOR PREVENTIVE MAINTENANCE OF ALL MACHINES OTHERWISE THE OFFER WILL BE REJECTED.

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Attachments:

NIT

Bid invitation details

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
1		Pfauter spline hob (P-250), Code:438501			4 JOB
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
	IGST -Integrated GST		%		
	Basic Price		INR		
4		BEVEL Gear Generator (G-635),M/C:441501			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
5		Leibher shaper (LFS-1000), Code: 440501			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
6		Samputensili Gear Grinding machine code:			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
7		GEAR HOBBING (H-400),CODE: 402512			4 JOB

Bid invitation

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
8		GEAR HOBBING (H-400),CODE: 402501		_____	4 JOB
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
9		GEAR HOBBING (H-400),CODE: 402502		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
10		GEAR HOBBING (H-400),CODE: 402503		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
11		Gear HOBBER (P-251),CODE: 404501(Cooper)		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	

Bid invitation

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
12		WMW GRINDING : 206561 HYD - IV BAY			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
13		GearShaper(82/22),CODE: 409501(Fellows)			4 JOB
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
14		GearShaper(82/22),CODE: 409502(Fellows)			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
15		Gear shaper(OHA50),CODE: 409502 (TOS)			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
16		St. BEVEL GEAR GENERATOR (G-14), 416501			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
17		St. BEVEL GEAR GENERATOR (G-14), 416502			4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
18		SPIRAL BEVEL GEAR GENERATOR(G-28):415502			4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
19		SPIRAL BEVEL GEAR GENERATOR(G-28):415501			4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
20		GearHobber(P-251, CODE:404516(cooper hyd)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
21	IGST -Integrated GST		%		4 JOB
		GearHobber(H-400), M/C CODE: 402561(hyd)			
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
22	CGST - Central GST		%		4 JOB
		Gear Grinder(AZA),CODE:4245 01(Reishaver)			
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
23	CGST - Central GST		%		4 JOB
		Gear Grinder(AZA),CODE:4245 02(Reishaver)			
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
24	CGST - Central GST		%		4 JOB
		GearGrinder(AZA),CODE: 424561(Reis hyd)			
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
25		SplineGrinder(SWZ- 10NPG-K): 430502(ELB)			4 JOB
	IGST -Integrated GST		%		

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
26		UNIVERSALGRINDING, M/C CODE: 202502(WMW)		_____	4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
27		HYPOID LAPPER (G-516), M/C CODE: 425501		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
28		HYPOID LAPPER (G-540), M/C CODE: 425502		_____	4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
29		Gear Shaver(GCX587) INT: 417501(Redring)		_____	4 JOB
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	CGST - Central GST		%	_____	
	IGST -Integrated GST		%	_____	
30		Gear Shaver(GCX587)		_____	4 JOB

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
		INT: 418501(Redring)			
		CGST - Central GST	%		
		SGST - State GST	%		
		UTGST	%		
		Basic Price	INR		
		IGST -Integrated GST	%		
31		UNIVERSALGRINDING,M/ C CODE: 201502(WMW)			4 JOB
		IGST -Integrated GST	%		
		Basic Price	INR		
		UTGST	%		
		SGST - State GST	%		
		CGST - Central GST	%		
32		UNIVERSALGRINDING,M/ C CODE: 202501(WMW)			4 JOB
		IGST -Integrated GST	%		
		Basic Price	INR		
		UTGST	%		
		SGST - State GST	%		
		CGST - Central GST	%		
33		UNIVERSAL GRINDING,M/C CODE: 202503(WMW)			4 JOB
		IGST -Integrated GST	%		
		Basic Price	INR		
		UTGST	%		
		SGST - State GST	%		
		CGST - Central GST	%		
34		UNIVERSAL GRINDING,M/C CODE: 202504(WMW)			4 JOB
		IGST -Integrated GST	%		
		Basic Price	INR		
		UTGST	%		

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
35		TOS GRINDING, M/C CODE: 217501		_____	4 JOB
	CGST - Central GST		%	_____	
	IGST -Integrated GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
71		BR 6 DRILL CENTRE TR-1 (75501)		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
72		YDC-96 DRILL CENTRE TR-1 (071501)		_____	4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
73		CARL ZEISS TR-1 (CMM)		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
74		GLEASON GEAR HOBBING TR-1 (600HC)		_____	4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
75		GDM-42 TURN CENTRE TR-1 (062501)			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
76		GDM 65 TURN CENTRE HYD 1 ST BAY (063561)			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
77		KELLENBERGER GRIND - 1 HYD 1 ST BAY(22)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
78		KELLENBERGER GRIND - 2 HYD 1 ST BAY(22)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
79		GDM-90 TURN CENTRE HYD 3RD BAY(064561)			4 JOB
	Basic Price		INR		

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	IGST -Integrated GST		%	_____	
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
80		SBCNC -35 TURN CENTRE TR-1 2ND BAY (050)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
81		TC-500 HMC CNC (354501)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
82		VTL -1000 TR-2 (541067)			4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
83		PRAGA-630 HMC TR -1 2ND BAY (354503)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
84		PRAGA-630 HMC TR -1 2ND BAY (354504)			4 JOB

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
85		WSU12 TURN CENTRE CNC (051501)			4 JOB
	IGST -Integrated GST		%	_____	
	Basic Price		INR	_____	
	UTGST		%	_____	
	SGST - State GST		%	_____	
	CGST - Central GST		%	_____	
86		WSU12 TURN CENTRE CNC (051502)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
87		VTC VMC HYD 2ND BAY (457561)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
88		PRAGA 800 HMC HYD 3RD BAY (355561)			4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	

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Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
89		SB CNC-35 TURN CENTRE HYD 4TH BAY (05056)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
90		PRAGA-630 HMC HYD 2ND BAY (354561)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
91		VTC VMC HYD 2ND BAY (457562)			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
92		SBCNC-55 TURN CENTRE P/L (50563)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
93		HMT DRILL CENTRE P/L (NEW HMT)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		

Bid invitation

Information

Description:EMN3/H&P/1050010877/PM OF CNC
GEAR CUT

Bid invitation number:6300036829

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	SGST - State GST		%		
	CGST - Central GST		%		
94		BFW VMC TR-2 (BMV-65)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
95		BFW VTL - CNC TR-2 (VTL NEW)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
96		FSS-80 MILL CENTRE TR-1, 1 ST BAY (19450)			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
97		PROTECK -1 P/L (PRO-1)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
98		PROTECK -2 P/L (PRO-2)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		

Bid invitation

Information
 Description:EMN3/H&P/1050010877/PM OF CNC
 GEAR CUT
 Bid invitation number:6300036829

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	SGST - State GST		%		
	CGST - Central GST		%		
99		PROTECK -3 P/L (PRO-3)			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
100		NAGEL HONNING P/L 292562			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		
	UTGST		%		
	Basic Price		INR		
	IGST -Integrated GST		%		
101		NAGEL HONNING P/L 292563			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
102		NAGEL HONNING HYD IV BAY : 292561			4 JOB
	IGST -Integrated GST		%		
	Basic Price		INR		
	UTGST		%		
	SGST - State GST		%		
	CGST - Central GST		%		
103		YAZDA HONNING HYD IV BAY : 291561			4 JOB
	CGST - Central GST		%		
	SGST - State GST		%		

Bid invitation

Information

Description:EMN3/H&P/1050010877/PM OF CNC
GEAR CUT
Bid invitation number:6300036829

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	
104		KADIA HONNING HYD III BAY : 293561		_____	4 JOB
	CGST - Central GST		%	_____	
	SGST - State GST		%	_____	
	UTGST		%	_____	
	Basic Price		INR	_____	
	IGST -Integrated GST		%	_____	