

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

**Preamble**

New Plant set up is under progress at Thirumayam and New Machines / Equipments are to be erected and commissioned .

Power Plant Piping Unit is located at Thirumayam. 18 KM away from Pudhukottai on the way to Karaikudi in the below mentioned address.

Power Plant Piping Unit  
Thirumayam  
Pudhukottai District  
Tamil nadu,  
India

**PART-I**

**Technical cum qualifying bid.**

1. Notice Inviting Tender

01.	Name of work	Assistance in Erection and commissioning of machines /Equipments at Thirumayam
02	Location of work	Power Plant Piping Unit - Thirumayam
03.	Estimated Value	35.00 lakhs
04.	Earnest Money Deposit	1,00 Lakh
05.	Work order Completion date	30.03.2012
06	Pre bid discussion	27.05.2011/ 2.00PM at Conference Hall/M&S Bldg no 2&4/BHEL, Trichy 620014.  Contact Person ; R.Selvaraj /SM/M&S/BHEL/Trichy 620014 Mob: 09442110452, Phone no: 0431-2575532 Mail: sraj@bheltry.co.in
06.	Last Date and time for Receipt of Tenders	06.06..2011/15.00Hrs
07.	Date and time of Qualification cum Technical Bid Opening.	06.06.2011/15.30 hrs

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

08.	Date of Price Bid Opening	Will be informed to qualified Contractors separately
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The Tender documents can be down loaded from BHEL website / govt. website at free of cost

1.2. The Contractors must submit their Tenders as required in THREE parts in separate sealed covers prominently super scribed as PART-I, PART-II TECHNICAL CUM QUALIFICATION BID and PART-III PRICE BID and also indicating on each of the covers, The tender reference no and due date & time and Name of work as mentioned in the Tender notice

A separate EMD cover should also be submitted. PART-I &-II and EMD covers shall be placed in a common cover super scribing Name of work, Tender reference no and due date

1.3 Tenders may be finalised through TWO PART or BY REVERSE AUCTION.

1.4 Clarifications on the tender specification if any may be sought by the bidders so as to reach this office at least seven days before the tender due date .

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## **2. Declaration by the Bidder**

. 2.1 Declaration by bidder's authorized signatory

Ref no: -----

Date: -----

I, hereby certify that all the information and data furnished by me with regard to this tender specification are true and complete to the best of my knowledge. I have gone through the specifications, conditions and stipulations in detail and agree to comply with the requirements and intent of the specification. I further certify that I am duly authorised representative of the under mentioned bidder and a valid power of attorney to this effect is also enclosed.

Date:

Signature of authorized signatory with seal

## 2.2 Certificate of no-deviation

Ref no: -----

date-----

We, m/s .....  
hereby certify that notwithstanding any contrary indications/ conditions elsewhere in our offer documents, I/we have neither set any terms and conditions nor there is any deviation taken from the conditions of BHEL's tender specifications, either technical or commercial, and I/we agree to all the terms and conditions mentioned in BHEL:'s tender specification with associated amendments and clarifications.

Date

signature of the bidder

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

### 3. Format for e- payment /DD return from BHEL

FORMAT TO RECEIVE E-PAYMENT THROUGH EXISTING ACCOUNT WITH NEFT/SEFT/RTGS ENABLED BANK BRANCH

Sub: E-payments vide NEFT/SEFT/RTGS – Reg.

VENDER CODE AS PER BHEL	:	
VENDER NAME AS PER BANK RECORDS	:	
ACCOUNT TYPE	:	
BANK ACCOUNT NUMBER	:	
NAME & ADDRESS OF THE BANK	:	
BRANCH CODE	:	
BRANCH RTGS CODE	:	
BRANCH MICR CODE	:	
NAME OF THE AUTHORISED SIGNAROTY	:	

I/we confirm that I/We will bear the charges, if any levied by my/our bank for the credit of SEFT/RTGS amounts in our account.

For.....

SIGNATURE

(Authorized signatory)

We confirm that we are enabled for receiving NEFT/SEFT/RTGS credits and we further confirm that the account number, the signature of the authorized signatory, branch code, RTGS code and MICR code of our branch mentioned above are correct.

BANK VERIFICATION

(Manger's/Officer's signature under bank stamp)

Note:

The above format duly filled and signed by the Contractor and the Bank shall be enclosed along with Technical bid so as to make Payment/ Return the EMD amount through Electronic media.

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

#### 4. Tender qualifying criteria

**Contractors to meet the qualifying criteria points mentioned below otherwise the offer is liable for rejection**

- 4.1 Contractor should have experience in the field of Fitting, assembly and fabrication nature of work. Experience in the field of Machine tool Erection is preferable.
- 4.2 Contractor should have minimum 3 year experience in the field of fabrication / assembly nature of work for a minimum value of Rs 3,00,000/-
- 4.3 Contractors to provide Bank Guarantee from a Nationalised Bank only for a value of Rs 12,00,000/-(Rupees Twelve lakhs ).Other forms of Bank Guarantee is not acceptable
- 4.4 EMD for a value of 1, 00,000/ - shall be submitted along with offer.
- 4.5 It mandatory to attend the Pre bid discussion before sending offer in the scheduled date (Ref Point 1 Notice inviting Tender) .

#### **Scope of work for Serial no 1 to 12 ( As in Point no 8.00 – Quantum of work**

**The contractor has to carry out the activities for the Erection and commissioning of machine as per the instruction of BHEL Executive/Original Equipment Manufacturer.**

- 5.1 List of machines and quantity to be erected and commissioned are indicated in the Point 8.0
- 5.2 Machine with packing boxes are to be moved to the erection location. Wooden boxes are to be opened and machine / components to be removed from the box.
- 5.3 Cleaning of entire machine parts and making the components ready for assembly as per the instruction of OEM
- 5.4 BHEL Executive/ Supervisor/ OEM in verifying the Machine's Packing list for the actual supply and if shortages any will be informed to stores
- 5.5 All protective coating and grease are to be removed and cleaned .in the machine surfaces
- 5.6 All foundation material are to be collected form stores and to be assembled as per the instruction of BHEL Executive/Supervisor

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

5.8 Machine parts are to be moved to the foundation and machine base to be positioned in the foundation pockets with required foundation bolt and nut

5.9 Rough levelling the Machine Base to be done and foundation grouting shall be made by BHEL. After concrete curing, other subassemblies are to be assembled, Machine Guards, Chip conveyor if any in the machine as per the instruction of BHEL Executive/OEM.

5.10. Machines to be lubricated with proper lubrication as per the instruction of BHEL Executive/Supervisor .All hydraulic and lubrication tanks are to be filled with the recommended lubrication /Hydraulic oil.

5.11. Contractor to carry out final levelling of the machine

5.12. Contractor should assist in carrying out Geometrical I test /Laser calibration if any.

5.13. Machine trial operation and test runs are to be supported by the contractor up to handing over to the machines to production Department.

5.14. Final touch up of painting machines and related facility of machines shall be done .

## **6.0 Contractor scope of supply for carrying out the above contract activities**

6.1 Contractor to bring suitable Welding set – 2 no, Gas cutting set – 2 set for Carrying out the above work

6.2 Qualified/ experienced, welder, fitter and rigger for carrying out the work. Regular attendance of contractors shall be ensured by the contractor. Mill Wright fitter are preferable

6.3. Provide Tools and tackles, Hand trolleys to move material.

6.4. Required scaffold if required to be built by the contractor with contractors' own material

6.5 Personal protective equipments as prescribed by BHEL norms are to be used by all Contract workmen while on work.

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

**7.0. BHEL scope of supply to carry out the above activities**

All Machines/Equipments and related accessories as in the quantum of work (SI no 8)

All consumables, Grease, Lubrication, Hydraulic oil, lifting facility, Paint, Trailer for movement within the Plant.

**8.0 Quantum of work.**

The following machines and equipments are to be Erected and commissioned at PPPU /Thirumayam unit.

S no	Machine Type	Machine Supplier	No of machines
<b>I</b>	<b>Assistance in machine Erection</b>		
1	Portable Universal Radial drilling Weight of m/c = 6MT(aprox)	Batliboi Hyderabad	1
2	Slant Bed CNC Lathe Weight of m/c = 8MT(aprox)	ASKAR MICRONS (P) LTD.,Mysore	1
3	Radial drilling m/c 80mm Weight of m/c = 8MT(aprox)	Batliboi, Chennai	4
4	Pipe but welding m/c Approximate weight = 6 MT	Primo automation Chennai	5
5	Double column Band saw 850mm Weight of m/c = 12MT(aprox)	INDOTECH MACHINES PVT. LTD.Indor	1
6	Vertical turning m/c. CNC VTL1250. Weight of m/c = 16 MT(aprox)	Premier Pune	1
7	CNC Horizontal Boring machine. Spindle dia 150mm – Romania Weight of m/c = 45 MT(aprox)	WMW Romania	1
8	CNC Horizontal boring m/c Spindle dia 110 mm m-Spain Weight of m/c = 35 MT(aprox)	JUARISTI TS COMERCIAL,S.L. SPAIN	1
9	CNC Pipe Chamfering m/c 600mm- BFW. Weight of m/c = 40 MT(aprox)	BFW Bangalore	1
10	Vertical Machining Centre- Taiwan Weight of m/c = 40 MT(aprox)	DAH LIH MACHUNERY INDUSTRY CO.LTD. Taiwan	1
11	CNC Pipe end chamfering machine- Itali. Weight of m/c = 45 MT(aprox).	Safop Itali	1
12	Incremental Pipe bending machine PB 600. Weight of m/c = 90 MT(aprox).	Cojafex, Netherlands.	2
13	Assistance for initial mechanical maintenance activities at	Group-I & Group-II Activities.	NA

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

Thirumayam		
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9.0 Payment Terms:

For serial no 1 to 12

Payment will be made only after 100% successful completion of each Machine/ Equipment.

For serial no13

Respective Group- I & II for the days attended and completion of allotted work

NO ADVANCE PAYMENT shall be made at any cost by BHEL.

10.0 Delivery:

Machines listed are to be erected and commissioned within March 2012.

However Machine and foundation readiness shall be informed by BHEL in advance and the contractor to attend the work as per work order. If required The contractor should be able to attend the work in TWO shifts in order to expedite the Maintenance activities

11.0 Validity of Offer. : Offer validity should be n FOUR months from the date of tender opening

12. Terms and Conditions:

12.1 Contractor should meet PF and ESI as statutory requirements for their employees. Copies of PF and ESI codes certificate should be submitted along with offer.

12.2 Earnest money deposit

EMD: Rs 1, 00,000/= (One lakh) should be submitted along with the offer in the form of cash (as permissible under IT act), pay order or demand draft only in favour of M/S BHEL Trichy.

EMD is to be paid in the form of Pay order or Demand Draft in favour of Bharat Heavy Electricals Limited, Tiruchirapalli and payable at Tiruchirapalli. No other form of EMD remittance shall be acceptable to BHEL.

In the case of unsuccessful bidders, the Earnest Money will be refunded to them after acceptance of tender by successful bidder. EMD shall not carry any Interest.

12.3 Security deposit:.

12.3.1 SD should be remitted by the successful tendered as below before starting the work.

a. Up to 10 Lakhs = 10% of Order value

b. Above 10 Lacs and up to 50 Lakhss = 1 Lac + 7.5% of Order value of exceeding 10 Lacs

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12 .3.2 The security Deposit should be remitted before start of the work by the contractor either as Pay Order or Demand Draft in favour of BHEL.

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

12.3.3 Local cheques of scheduled banks, subject to realization.

12.3.4. Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).

12.3.5 Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.

12.3.6 Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.

12.3.7 EMD of the successful bidder shall be converted and adjusted against the Security Deposit excepting for such bidder who has remitted One Time EMD.

12.3.8 The Security Deposit shall not carry any interest.

12.3.9. Return of security deposit:

If the contractor fully performs and completes the works in all respect to the entire satisfaction of BHEL, Security Deposit will be released to the contractor after deducting all costs of expenses of other amounts that are to be paid to BHEL

12.4 Regular working hours

The services of crane with operating crew shall be made available for duration of Nine hours per day including one-hour break lunch/tea break. The regular working hours will usually be from 08:00 a.m. to 8:00 p.m. However, this shall be adjusted to suit the working hours of BHEL. In case of BHEL Requirement contractors should be able to work Shift operation

12.5. Insurance cover for men & materials

The Contractor shall arrange necessary Insurance cover with appropriate Third Party Liability cover Personal Accident Policy as applicable for the workmen crew. If any accident/injury/loss occurs while erection of the crane, to any other persons/ public and the properties of BHEL/client/other agencies/third party, the contractor shall have to pay necessary compensation and other expense, so decided by the appropriate authorities.

12.6 Accommodation & local conveyance

Contractor has to make their own arrangement for accommodation, local transport and other amenities for their workmen.

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

## 12.7 Safety of Men, Equipment, Material and Environment

12.7.1. PPEs shall be provided by the contractor as per attachment with appropriate trade job has to be ensured by the contractor at the job site at all times as per BHEL procedure. List of PPE is enclosed in ANNEXURE-A

12.7.2. The Contractor shall abide by the Safety Regulations applicable for the Site/Project. Contractors are also to ensure that their employees and workmen use safety equipments as stipulated in the Factories Act (Latest Revision) during the execution of the work. Failure to use safety equipment as required by BHEL Engineer will be a sufficient reason for issuance of memo, which shall become part of Safety evaluation of the contractor at the end of the Project. Also all site work may be suspended if it is found that the workmen are employing unsafe working practice and all the costs/losses incurred due to suspension of work shall be borne by contractor.

12.7.3 The contractor shall submit report of all accidents, fires and property damage, dangerous occurrences to the authorized BHEL official immediately after such occurrence but in any case not later than twelve hours of the occurrence. Such report shall be furnished in the manner prescribed by BHEL and also to meet statutory requirement. Any injury sustained by any of the contractor's employees within the Project premises must be reported to BHEL supervisor and FIRST AID should be immediately administered. The Contractor shall be responsible for keeping and maintaining proper records of Accidents to his personnel. According to the Factory Act and the Employees state Insurance Act & regulation, any person sustaining any injury within the project premises and absenting himself from work for more than 46 hours, his accident report has to be sent to the respective Government Authorities. Therefore contractor shall inform the owner's representative such matter immediately for their needful action.

12.8 BHEL reserves the right to go for a Reverse Auction (RA) or Opening the submitted Part-I Qualification cum Technical bid, which will be decided after technical evaluation.

## 12.9 General terms and conditions of RA. I.e. On line bidding through the internet

For the proposed reverse auction,

12.9.1. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.

12.9.2. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.

12.9.3. Business rules like event date, time, and Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

12.9.4. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.

12.9.5 BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Mobilisation Charge, Demobilisation charge, Hiring Charges, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.

12.9.6. Reverse auction will be conducted on scheduled date & time.

12.9.7. At the end of Reverse Auction event, the lowest bidder value will be known on the network.

12.9.8. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.

12.9.9. . Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.

12.9.10. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.

Before attending the PRE BID DIISCUSSION vendors are requested to Visit the location of work at PPPU/ Thirumayam with a written/mail permission from SDGM/Plng/M&S .

For any queries / clarifications the bidders may contact us through FAX NO. +91 431 2521416 or through e-mail: [sraj@bheltry.co.in](mailto:sraj@bheltry.co.in)

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

ANNEXURE "A" to POINT no 12.7.1

Personal Protective Equipment Recommended for Erection and cabling of New Cranes

- I. Personal Protective Equipment Recommended for Erection and cabling of New Cranes

Sl. No.	Job/Trade	PPE Recommended
1.	Arc welder	Leather gloves Leather apron Spectacle goggles Hand shield Filter lens 11-14 Leather leg guard Safety boots slip in type
2.	Gas welder	Gas welding goggles Leather gloves Safety shoes
3.	Painter	PVC gloves Light fume respirator Safety shoes Barrier cream Spectacle goggles
4.	Fitter / General	Leather gloves Safety shoes Spectacle goggles
5.	Crane operator_	Safety shoes Canvas gloves Spectacle goggles
6.	<u>Rigger.</u>	Leather gloves Safety helmet Safety shoes Spectacle goggles
7.	_Unskilled / semi skilled Worker	Leather gloves Safety shoes Spectacle goggles Plastic face shield
8.	<u>Other Employees</u>	Safety shoes Spectacle goggles

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

II. Personal Protective Equipment Recommended for Hazardous Operations

High Noise Area

1. Bldg. 50
2. Work at height

Ear Plug / Ear Muff

Gloves

Safety Belt

Helmet

Safety Shoes

Note: Contract Workers, Engineers, Supervisors and proprietors should wear Pant & Shoes while entering the factory premises.

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**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

## **Part- II**

### **Scope of work for Item SI no 13 (As in Point no 8.0/ Quantum of work)**

Assistance for Initial maintenance Activities Group-I and Group-II

**Name of work:** Assistance for initial mechanical maintenance activities at Thirumayam

#### **Scope of work:**

**The contractor has to carry out the following activities for the initial maintenance activities .**

1. Machines , Equipments and material to be un loaded at Thirumayam Plant.
1. Machines and Equipment Packing Boxes from Supplier are to be unloaded from Truck and positioned in Place as indentified by BHEL Supervisor.
2. Unloaded materials are to be moved to storing place and to be shifted to identified shop floor Place as per the instruction of supervisor.
3. Contractor to carry out minor fabrication and facility for erection of machines at Thirumayam plant itself.
4. Area cleaning and miscellaneous activities are to be carried out almost every day
5. Material and spares movement from HPBP/Trichy to Thirumayam Plant and intern from Thirumaym to HPBP/Trichy where ever required

The above work may be carried by two types of Maintenance activities, Group-I maintenance activities & Group-II Maintenance activities depending upon the volume of work & location of work

Group -I Maintenance Activities to carry out maintenance activities within Thirumayam plant. Assistance of One welder, Two fitters, Five Helpers and One rigger are required per day for carrying out the above work

Group-II Maintenance activities to carry out assistance in maintenance activities in Thirumayam and also at HPBP simultaneously. As per the instruction of BHEL Executive/Supervisor. Contractor may have to go to HPBP in Lorry/ Truck and collect the erection material and movement of machines which are already unloaded/ available at HPBP. Assistance of Two welders, Four fitters, Ten Helpers and Two riggers are required per day for carrying out the above work.

Normally the contractor is to carry out the Group-I activities daily and in case Group-II activities are required BHEL Executive shall give one day advance information to contractor.

If required by BHEL the contractor has to work in Two Shift in order to expedite the Maintenance activities.

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

**Quantum of work :** Group I Activities are to be carried out for 60 no of days

Group-II Activities are to be carried out for 30 no of days.

**Payment terms:** Payment will be done per day activities for group-I and Group-II activities separately.

**Validity of offer;** Four months offer validity shall be issued by the contractor;

**BHEL Scope of Supply:**

All raw materials for fabrication , welding Electrode & consumables like Cotton waste, kerosene.

facilities like Trolley/Trucks/ Trailer/ Cranes for movement of material.

BHEL shall supply Lifting tacles and tools when ever the contractor has to carry oput the work at HPBP/Unit-II

**Contractor's Scope of supply:** Suitable Welding set- 2 no , Gas cutting set – 2 sets with Hose assembly, Hand tools and tackles whenever the contractor carry out the work at Thrumayam unit.

All Personal Protective Equipments as enclosed list for the respective trades as in the annexure.

Contractor should ensure that required qualified and experienced welders, fitters and riggers are used to carry out the work.

**Location of work:**

Normally the work has to be carried out at Thirumayam plant. Some time the contractor may be used to move the material from HPBP/unit-II/ Trichy to Thirumayam as well as Thirumayam to HPBP/Trichy.

Required vehicle shall be provided by BHEL for material movement between BHEL Trichy and Thirumayam.

**Duration of contract work:** Tentative duration shall be Three months from August 2011 to October 2012.

**Work order validity required:** Min 6 months from the date of work order release

**Note**

All other terms and conditions are applicable as for SI no 1 to 12

**Name of work:** Assistance for Erection and commissioning of Machines/Equipments and Initial Maintenance activities at PPPU/ Thirumayam.

### Part-III / Price bid

Contractor to quote as below for the following machines

Item S no	Machine Type	Machine Supplier	No of Machines	Rate per Machine in Rs	Value in Rs
1	Portable Universal Radial drilling	Batliboi Hyderabad	1		
2	Slant Bed CNC Lathe.	ASKAR MICRONS (P) LTD.,Mysore	1		
3	Radial drilling m/c 80mm	Batliboi, Chennai	4		
4	Pipe but welding m/c	Primo automation Chennai	5		
5	Double column Band saw 850mm.	INDOTECH MACHINES PVT. LTD.Indor	1		
6	Vertical turning m/c. CNC VTL1250.	Premier Pune	1		
7	CNC Horizontal Boring machine. Spindle dia 150mm	WMW Romania	1		
8	CNC Horizontal boring m/c Spindle dia 110mm .	JUARISTI TS COMERCIAL,S.L. SPAIN	1		
9	CNC Pipe Chamfering m/c 600mm	BFW Bangalore	1		
10	Vertical Machining Centre	DAH LIH MACHUNERY INDUSTRY CO.LTD. Taiwan	1		
11	CNC Pipe end chamfering machine	Safop Itali	1		
12	Incremental pipe bending machines PB 600	Cojafex, Netherlands	2		
<b>13</b>	<b>Initial maintenance activities</b>	<b>Type of work</b>	<b>No of days</b>	<b>Rate per day</b>	<b>Value In Rs</b>
13a	Initial maintenance activities	Group-I	60		
13b	Initial maintenance Activities	Group-II	30		

#### IMOPORTANT NOTE

- Individual Item L-1 are considered for Evaluation for serial no 1 to 12
- Serial no 13a & 13 b combined L-1 offer is considered and Order shall be released for a single source
- Vendors to quote taxes extra if any.