

Ref: PW/SAS/Dabhol II/commissioning manpower
Date: **01.03.06**.

To,
The Bidder

Sub: Commissioning Assistance Services for revival of Dabhol Power Plant.

Dear Sir,

We are glad to issue this tender enquiry and invite you to offer the most competitive and lowest rates against the same.

You are requested to submit your offer on or before **1000** hours on **10.03.06** to this office.

1. **Pre Qualification Requirement (PQR)**: Documents listed in **ANNEXURE A** will be submitted by bidders in a sealed envelope marked with "**PQR**". Bid shall be opened on **1600** hours on **10.03.06**
2. **The Technical Bid**: The Technical Bids will be submitted in a separate sealed envelope-containing **Annexure B** stamped and duly signed on each page by the bidders. Envelope shall be marked "**Technical Bid**". The bid shall be opened only for those bidders who have satisfied conditions of PQR, on **10.03.06 itself**.
3. **The price bids** : It will be submitted in a separate sealed envelope marked "**Price Bid**"-containing **Annexure C** duly filled on bidder's letterhead, stamped and duly signed on each page. The Price bid will be opened after scrutiny of the technical bids. In case it is not possible to complete scrutiny on the same day, then the bidders will be intimated about the day of opening of the price bids.

Procedure for submission of offer:

Please note that it will be a **three**-bid system. Your offer will be submitted in three sealed envelopes containing respective documents as mentioned above, along with requisite EMD in a fourth sealed envelope superscribing the details of enclosures, Tender Enq. No./Date, Name of the work,

Earnest money deposit, Scope of work, Special terms and conditions, Period of Services, Payment Terms, Taxes and duties, Mobilization of site, Validity of offer, Safety etc are mentioned in the enclosed document

Your tender should be accompanied by earnest money deposit of Rs.1,50,000/-, IN CASH/ DEMAND DRAFT/ PAY ORDER ONLY. Tender received without specified/ adequate earnest money is liable for rejection.

Security Deposit: Clause no. 1.8.1, 1.8.2, 1.8.4, 1.8.6, 1.8.7 of our "General and special conditions of contracts" stands amended as below:

1. Upon acceptance of tender, the successful tenderer within the time specified in the Letter of Indent must deposit the required amount as part amount towards Security deposit.
2. The rate of Security Deposit shall be as below:

Upto Rs.10 Lakh	10%
Above Rs.10 Lakh upto Rs.50 Lakh	1 Lakh +7.5% of the amount exceeding Rs.10 Lakh.
Above Rs.50 Lakh	Rs.4 Lakh + 5% of the amount exceeding Rs.50 Lakh.
3. The security Deposit should be deposited before start of the work by the Agency.
4. Security Deposit may be furnished in any one of the following forms :
 - i) Cash (as permissible under the Income Tax Act).
 - ii) Pay order, Demand Draft in favour of BHEL.
 - iii) Local Cheques of scheduled banks, subject to realization.
 - iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc.
(Certificates should be held in the name of Agency furnishing the security and duly pledged in favour of BHEL and discharged on the back).
5. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.
6. 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 Agency, A/C BHEL, duly discharged on the back.
7. 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 deposited before start of the work and the balance 50% may be recovered from the running bills.

8. EMD of the successful tenderer shall be converted and adjusted against the security deposit.
9. The security deposit shall not carry any interest.

NOTE: Acceptance of Security Deposit against SI.No.(5) and (6) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

A copy of tender document with each page duly signed and stamped shall be submitted along with your offer as a token of your unconditional acceptance to these tender conditions.

Also any deviation to the tender conditions shall be submitted in a separate paper duly signed by the bidder, any overwriting / correction by the bidder on the tender will not be recognized and the offer may be rejected on this ground.

'General and special conditions of contract' enclosed herewith will be fully applicable, except otherwise stated in this enquiry. In case of any conflict, the conditions specified in this tender enquiry letter will prevail over that of the 'General and special conditions of contract'.

Thanking you,

Yours faithfully,

Manager /Purchase

Encls:

1. CHECKLIST OF DOCUMENTS TO BE FURNISHED (**Enclosed**)

CHECKLIST OF DOCUMENTS TO BE FURNISHED WITH THIS TENDER:

1. **Pre Qualification Requirement (PQR) as per ANNEXURE A.**

Documents listed in ANNEXURE A will be submitted by bidders in a sealed envelope marked with “PQR”:

- a. A copy of ANNEXURE A with each page duly signed and stamped shall be submitted as a token of your unconditional acceptance
- b. Bio-data & certificates of qualifications & experience of their employees, identified to execute the contract as proofs.
- c. Declaration / certificates as a proof for Knowledge of English both verbal & written and Hindi for verbal communication only
- d. Past experience in the field of commissioning/O&M of-power plants and inspection of power plant machinery & components of similar nature.

2. **The Technical Bid:** The Technical Bids will be submitted in a separate sealed envelope-containing **Annexure B** stamped and duly signed on each page by the bidders. Envelope shall be marked “ **Technical Bid**”.

Bidder shall also enclose details of the Company along with relevant Certificates and statutory Registrations.

3. **Price Bid (Annexure C)** in a sealed envelope, Separately as per instructions given in NIT

4. **Power of attorney / Authorization letter** of the organization for the bidder, for submission of offer.

5. **EMD:** Reference no. and date of the money receipt of BHEL for EMD paid by you, to be mentioned in the above covering letter.

First, PQR bid will be opened and documents will be scrutinized, Party successfully meeting the requirement of “Prequalification” shall only qualify for opening of “Tech Bid”. If the documents are found satisfactory, then Technical Bid will be opened. Price Bid will be opened of the bidders who satisfy requirements of “PQR” as well as technical bid. The party may be called for discussion / clarification with BHEL as required. In case of party not qualifying against requirement of “PQR” & “Technical Bid”, the party will be disqualified and his price bid will not be opened.

In case of non-furnishing of above documents without sufficient reasons, a party will be considered non-responsive and this will have negative impact on its overall performance rating record with BHEL.

 <p>PS: WR: SAS-NGP</p>	<p>BHARAT HEAVY ELECTRICALS LTD Regional Service Centre, PS-WR Shree Mohini Complex, 345, Kingsway, Nagpur – 440 001</p>	<p>EPABX Phone No: 2530641 (5 lines) Fax No: 0-712-2530640</p>
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PART – I- PQR

ANNEXURE A

Ref: PW/SAS/Dabhol II/commissioning manpower

Date: 13/02/06.

**Sub: Manpower for commissioning assistance- Dabhol.
Pre- Qualification Requirements (PQR)**

The agency should have sufficient numbers of qualified & experienced engineers to man commissioning activities in the shifts as well as to discharge other responsibilities

Qualifications & Experience of engineers: -

1. **General:** For all category, Bachelor's Degree / Diploma in Engineering with minimum three years experience in Power Plants in commissioning / operation / maintenance areas of utility sets / CCPPs in PSUs /SEBs / Private power producing companies.
2. **Gas Turbines Mech-Commissioning:** Bachelor's Degree/Diploma in Engineering with minimum three years experience in commissioning / operations / maintenance experience in GE make Gas for Power Generation
3. **Steam Turbine commissioning:** Bachelor's Degree/Diploma in Engineering with 2-3 years experience in commissioning / operations / maintenance experience of Steam Turbines
4. **HRSG- boiler commissioning:** Bachelor's Degree/Diploma in Engineering with minimum three years experience in commissioning / operations / maintenance in HRSG/ Boilers of large sizes
5. **Plant Chemist:** Bachelor's Degree Science / Diploma in Engineering with minimum three years experience in commissioning, operation & maintenance of power plant resource chemistry
6. **GT C&I Commissioning:** Bachelor's Degree/Diploma in Engineering with 2-3 years experience in commissioning / operations / maintenance in C & I controls

7. **Station C&I Commissioning:** Bachelor's Degree/Diploma in Engineering with minimum three years experience in commissioning / operations / maintenance experience in DCS, PLC based controls (Foxboro), CV calibrations - 2 etc &
8. **Electrical Commissioning:** : Bachelor's Degree/Diploma in Engineering with minimum three years experience in commissioning / operations / maintenance experience in Generators, AVR, Transformers, Switch Gear(HT/LT), Actuators etc in utility sets both in HT and LT
9. **BOP commissioning:** Bachelor's Degree/Diploma in Engineering with minimum three years experience in commissioning / operations / maintenance in balance of plant equipments as per list of equipments mentioned in this enquiry
10. **Note;**
 1. The bidder shall produce the bio-data & certificates of qualifications & experience of the persons, identified to execute the contract. BHEL reserves the right to have one –to- one interaction with the identified executives of the Agency who will be responsible for execution of contract, if required prior to award of work & may reject one or all the identified executives & hence, the bidder.
 2. Knowledge of English for written & verbal communication and Hindi for Verbal communication only is essential.

PQR BID DOCUMENTS

The bidders in a sealed envelope shall submit following documents:

1. A copy of ANNEXURE A with page(s) duly signed and stamped shall be submitted as a token of your unconditional acceptance
2. Bio-data & certificates of qualifications & experience of the persons, identified to execute the contract.
3. Declaration / certificates as a proof for Knowledge of English for written & verbal communication & Hindi for Verbal communication only.



BHARAT HEAVY ELECTRICALS LTD
Regional Service Centre, PS-WR
Shree Mohini Complex, 345, Kingsway,
Nagpur – 440 001

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Fax No: 0-712-2530640

PART – II—Technical bid ANNEXURE-B

Ref: PW/SAS/Dabhol II/commissioning manpower
Date: 13/02/06.

RGPPL DABHOL

COMMISSIONING MANPOWER

SUB CONTRACTING DETAILS

Regd Office: BHEL House, Siri Fort, New Delhi – 110 049.

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2.	WORK PLAN IN BRIEF
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5.	Special terms & conditions

Plant details

INTRODUCTION:

Dabhol Power Station was constructed by M/s Enron with M/s GE and M/s Bechtel as main Agencies. Phase I consisting of one block of two Frame 9FA GTs, two HRSGs and one steam turbine (total 750 MW) was commissioned in May 1999. Block 1 of Phase II (Total 1584 MW) was under commissioning when in May 2001 all operations ceased due to arbitration cases between M/s MSEB and Enron. Till May 2002, all equipments were preserved and maintained haphazardly by various agencies. In May 2002, M/s Punj Lloyd was engaged by the 'Lenders' (M/s ICICI, IDBI, etc) as one single agency for preservation and maintenance of total plant.

There are six gas turbine (Frame – 9FA), six HRSG, three steam turbines. They are grouped in three blocks – each one comprises with two gas turbines, two HRSG and one steam turbine. One such block is under phase –I and remaining two are in phase –II. Phase one capacity is 750 MW (gas turbine –230MW each and steam turbine 290 MW). Phase –II capacity is 1584 MW (gas turbine – 240 MW and steam turbine 312 MW each).

Now Ratnagiri Gas &Power Projects Ltd (RGPPL) has taken over the project. Govt. of India has initiated Dabhol revival plan. The work is planned to be carried out in following stages by RGPPL:

1. Assessment of GT, HRS and STG (Contract I)
2. Assessment of BOPs under the supervision of M/s Bechtel Overseas Inc and execution of work based on recommendations after assessment by GE and Bechtel in Block II and restarting Block II. (Contract II)

RGPPL Dabhol has engaged NTPC as their consultant for Revival of Dabhol Project. Contract – I for condition assessment of G.E supplied equipments has been executed.. Now, RGPPL, Dabhol has placed an order on BHEL for Execution of Contract II – condition assessment of Balance of Plant (BOPs) (Originally managed by Bechtel Overseas Incorp -BOI for Block I, II and III) and Revival of Block II (Originally managed

by GE II and BOI). Block II is planned to be revived with the aim to commission & run on load by mid May 06. The work shall be carried out under the supervision of GE International Inc. as well as Bechtel Overseas inc and BHEL.

LOCATION OF THE PLANT:

Dabhol power station is situated in Maharashtra State on the western coast about 300 km from Mumbai by road. By rail the nearest station is Chiplun in Konkon railways. It is 50 Km for Chiplun by road.

WORK PLAN IN BRIEF

BHEL scope of work includes:

1. Assessment of all BOPs of entire Combined Cycle Gas Power Plant (Block I, II & III) —**(PART- A)**
2. Revival (Inspection, servicing/rectifications/replacements of defective components) and commissioning of Block - II along with associated BOP systems, Synchronization and Full load operation of Block - II on Naphtha. —**(PART- B)**

Following activities are broadly included:

- (i). Assessment of equipment, systems of complete power plant (Block – I, II & III).
- (ii). Overhauling, servicing and commissioning of Block - II and Common BOP Systems for Full load operation of Block - II on Naphtha.
- (iv). Technical Support during stabilization period for key equipment (Gas Turbines, HRSGs, Generator(s), Steam Turbine and Control & Instrumentation systems etc).

DETAIL:

Assessment of all BOPs of entire Combined Cycle Gas Power Plant (Block I, II & III) —(PART- A)

This shall include following activities:

- a. Checking of systems/ equipment for completeness
- b. Checking of integrity of equipment, system, structures, components, valves, specialties, pipe work, supports, healthiness of control system, Hardware & software components & Field Instruments / Actuators/ Analyzers/ Flow devices etc.
- c. Assessment of Electrical Equipment/ Systems: The engineer shall assist to carry out detailed Assessment of all electrical equipments / systems such as transformers, DC systems, switch gears/DBs, drives, cables/ cabling, switchyard equipment (along with associated protection & controls) etc.
- d. Assessment of Control & Instrumentation Equipment/ Systems: The Agency shall assist to check integrity and healthiness of each component of all the C&I Systems including electronic cards/ devices (controllers/ processors, Input/ Output modules, Power supply modules, communication modules, interface modules, mounting modules, racks etc.) software components, field instruments, sensors, analyzers,

actuators, transducers, E/P converters control valves, solenoid valves, flow elements/ meters, local controllers, pneumatic tubing/ piping, instrumentation cable routing/ continuity/ termination, optical fiber cable routing/ termination, wiring etc. A System by system checks is included in the scope. All missing components, equipment, short supplied systems, sub-systems etc. shall be identified.

Revival and commissioning of Block - II along with associated BOP systems, Synchronization and Full load operation of Block - II on Naphtha. —(PART- B)

1. Commissioning of Block - II and Common BOP Systems for Startup & full load operation of Block - II on Naphtha The work shall be scheduled to achieve start up of Block-II on fast track for Synchronization on Naphtha Fuel. Accordingly, revival work for certain systems/ equipment e.g. Block - II equipment and systems (complete combined cycle module), Common BOP equipment/ systems required for operation of Block- II, Control System, and Emergency DG sets shall be scheduled and completed to meet the early commissioning requirement of Block – II.
2. Completion of commissioning activities, if any, for max load operation of Block-II on Naphtha fuel.
3. After commissioning of Block – II and full load operation on Naphtha, the agency shall provide Support for a period of One month during Naphtha Operation of Block – II
4. To ensure that Installation/ commissioning of equipment and C&I systems required for Naphtha operation on gas turbines of Block – II is complete in every aspect to allow full load operation of gas turbines on Naphtha. Accordingly, startup on HSD and changeover to Naphtha from HSD and vice -versa shall be established during commissioning. All interlocks and protections required for safe operation on Naphtha shall be established during commissioning of Block – II.
5. Services to be provided shall confirm to the highest standard of workmanship so that after commissioning, the equipment and systems shall be capable of performing completely safe, and reliable operation.
6. Calibration, replacement of damaged/ corroded/ worn out parts & assembly. Commissioning shall include lining up the system, test operation of equipment,

checking of protections & interlocks, tuning of control loops, carrying out electrical testing, synchronization of units leading to full load operation of the Block - II.

Note:

- a. **BHEL shall generally follow Run, Repair and Replace criterion as per standard practice, while carrying out repair, servicing and overhauling of various equipments.**
- b. **The total work plan shall be executed by BHEL with the supervision of GE International Inc and Bechtel Overseas Inc. Major OEM such as Vogt, Kawasaki etc may also be involved. BHEL Experts in the field of erection & servicing of various equipments shall be available at site. BHEL shall engage contract workforce for erection, servicing & also for commissioning assistance.**

SCOPE OF WORK & RESPONSIBILITIES OF AGENCY

1.0. PROVIDING COMMISSIONING MANPOWER:

Agency shall supply experienced commissioning manpower of the quality mentioned in PQR- Annexure- A. Tentative commissioning manpower requirement is envisaged as follows:

SN	AREA OF WORK	NUMBER OF ENGINEERS
1.	GT Mech-Commissioning	2
2.	Steam Turbine commissioning	2
3.	HRSG- boiler commissioning	2
4.	Plant Chemist	1
5.	GT C&I Commissioning	2
6.	Station C&I Commissioning	2
7.	Electrical Commissioning	2
8.	BOP commissioning	2

- 1.1. Table shows the anticipated manpower requirement. The agency shall provide the actual manpower as intimated by BHEL at the time of placing LOA. Any additional manpower as & when required shall be intimated by BHEL and shall be provided by agency within a period of seven days after receipt of intimation from BHEL.
- 1.2. In case the required manpower is not arranged timely by the agency, BHEL shall deduct double of the proportionate amount calculated based on monthly rate.
- 1.3. A month means 30 days starting from the date of report of an engineer to BHEL at RGPPL Dabhol plant.
- 1.4. If the requirement of engineers is upto 15 days or less from the date of report of engineer at Dabhol then the payment shall be made for a period of 15 days. However, if the period is more than 15 days then the payment shall be made for one full month.
- 1.5. On account of absence of any personnel from duty due to any reasons proportionate amount shall be deducted from the immediate invoice raised.
- 1.6. Commissioning activities may involve round the clock working during peak period and as such engineers shall be working in 12 hrs shifts during this period. No over

time claim shall be applicable. However in case of continuous working a holiday shall be provided for after every ten continuous working days. However, agency has to ensure uninterrupted work during this period

- 1.7. Revival of this project has been taken up on emergency basis and on fast track mode based on the directives from GOI and as such engineers may be required to work on Sundays as well as on public holidays. No additional payment shall be made on this account.

2.0. RESPONSIBILITIES: Related to “ Assessment of all BOPs of entire Combined Cycle Gas Power Plant (Block I, II & III) —(PART- A)” of work plan

- a. Assessment of Control & Instrumentation Equipment/ Systems: The Agency shall assist to check healthiness of each component of all the C&I Systems including electronic cards/ devices (controllers/ processors, Input/ Output modules, Power supply modules, communication modules, interface modules, mounting modules, racks etc.) software components, field instruments, sensors, analyzers, actuators, transducers, E/P converters control valves, solenoid valves, flow elements/ meters, local controllers, pneumatic tubing/ piping, instrumentation cable routing/ continuity/ termination, optical fiber cable routing/ termination, wiring etc. A System by system checks is included in the scope. All missing components, equipment, short supplied systems, sub-systems etc. shall be identified.
- b. Assessment of Electrical Equipment/ Systems: The agency shall assist in carrying out detailed assessment of all electrical equipments / systems such as transformers, DC systems, switch gears/DBs, drives, cables/ cabling, switchyard equipment (along with associated protection & controls) etc.
- c. Assessment of Mechanical Equipment/ Systems The agency shall assist in checking equipment, system, valves, pipe work, supports, healthiness of control system, Hardware & software components & Field Instruments / Actuators/ Analyzers/ Flow devices etc.

3.0. RESPONSIBILITIES: Related to “Revival and commissioning of Block - II along with associated BOP systems, Synchronization and Full load operation of Block - II on Naphtha. —(PART- B)”

- a. Commissioning of Block - II and Common BOP Systems for Startup & full load operation of Block - II on Naphtha The work shall be scheduled to achieve start up of

Block-II on fast track for Synchronization on Naphtha Fuel. Accordingly, revival work for certain systems/ equipment e.g. Block - II equipment and systems (complete combined cycle module), Common BOP equipment/ systems required for operation of Block- II, Control System, and Emergency DG sets shall be scheduled and completed to meet the early commissioning requirement of Block – II.

- b. Completion of commissioning activities, if any, for max load operation of Block-II on Naphtha fuel.
- c. After commissioning of Block – II and full load operation on Naphtha, the agency shall provide Support for a period of One month during Naphtha Operation of Block – II
- d. To ensure that Installation/ commissioning of equipment and C&I systems required for Naphtha operation on gas turbines of Block – II is complete in every aspect to allow full load operation of gas turbines on Naphtha. Accordingly, startup on HSD and changeover to Naphtha from HSD and vice -versa shall be established during commissioning. All interlocks and protections required for safe operation on Naphtha shall be established during commissioning of Block – II.
- e. Services to be provided shall confirm to the highest standard of workmanship so that after commissioning, the equipment and systems shall be capable of performing completely safe, and reliable operation
- f. Calibration, replacement of damaged/ corroded/ worn out parts & assembly. Commissioning shall include lining up the system, test operation of equipment, checking of protections & interlocks, tuning of control loops, carrying out electrical testing, synchronization of units leading to full load operation of the Block - II.

4.0. GENERAL: Commissioning engineers of agency shall ensure safe running/shutting off of equipments & systems by adopting the safe practices such as work permit system, lining up the system before charging, checking protections, interlocks & alarm system, maintaining operational parameters, logging parameters & instructions and coordinating with RGPPL in that regard. They will be working under overall supervision of BHEL engineers and follow the guide lines issued with regard to daily plans of commissioning activities. Drawings, documents required for commissioning shall be arranged by BHEL.

5.0. List of main equipment & system

1. Gas Turbines & Integral Auxiliaries
2. Air Intake System and Chiller Cooling System for Gas Turbines
3. Steam Turbine & Integral Auxiliaries including Steam Condenser, Air evacuation system
4. HRSG and Auxiliaries including gas exit stacks
5. Complete Power Cycle System – Condensate system, Feed water system, HP/ IP/ LP Steam system, CRH/ HRH system, HP/ IP/ LP Bypass System. It includes all Pumps (CEP, BFPs, ECW Pumps etc), piping, valves, heat exchangers, filters/ strainers, control stations etc.).
6. Equipment Cooling water system, and Auxiliary Cooling water system
7. Low Pressure Piping including Station Piping covering all auxiliary systems
8. Electrical Equipment – Generator & Auxiliaries, Transformers, Drive Motors, HT Switchgear / LT Switchgear/ MCCs along with Protection Relays, DC Systems etc.
9. Control & Instrumentation Equipment for Gas Turbines, Steam Turbines, HRSGs, Generators and other main plant equipment including MARK-V control systems, DCS, Field Instruments, Actuators, Analyzers, PLC's, UPS, Process connections & Piping, Instrumentation Cables, Junction boxes etc.
10. Raw water Supply, storage & its treatment System.
11. Potable water system
12. Makeup Water DM water system
13. Condensate storage and transfer system
14. Sea Water Makeup (Cooling tower makeup) System and associated including chemical dosing system
15. Circulating (CW) water Blow down system
16. Circulating Water System (Complete CW pumping system, cooling towers & steam turbine condensers)
17. Circulating water (chemical dosing) treatment system
18. Closed cooling water system (of auxiliary cooling) and associated its chemical conditioning skid.

19. Open cooling water system (of auxiliary cooling) and associated its chemical conditioning skid.
20. Main steam, Reheat, LP steam & Bypass steam systems
21. Feed water system
22. Condensate System
23. Condenser Air removal system
24. Chemical Feed System for condensate & feed water
25. Blow down system for Steam Generator
26. Auxiliary Steam System
27. Lube oil storage & Transfer system
28. Turbine seal oil system
29. Liquid Fuel oil booster pumping, storage, purification (treatment) and forwarding (Pumping) system
30. Steam & Water Analysis system
31. HVAC system (s) for main turbine building
32. HVAC system for Miscellaneous buildings
33. Fire water storage and pumping system
34. Fire detection and protection system
35. Waster water treatment & disposal system
36. Compressors (service & instrument air) and associated air drier system for main power block and miscellaneous areas,
37. Hydrogen generation plant & bulk gas storage system
38. Material Handling Equipments such as Gantry Cranes, EOT cranes, hoist etc.
39. Hangers & Supports for pipe support system.
40. Emergecny Diesel Generater Set
41. Electrical Power Supply (HV/LV) System
42. Switchyard Equipments including protection and control systems.
43. Complete Plant Control & Instrumentation including local panels field instruments including actuators, analyzers, PLCs, UPS, Process connection and piping, instrumentation cables, junction boxes etc.

Any other Plant or Equipment not covered above but essential for full load operation of Block – II on Naphtha.

Period of service, BBU/payments, facilities & amenities

- 1. Period of service:** The services shall be engaged for a period of about four months, which shall have the provision of extending the period for duration up to one year. In such event the man monthly rates will remain same & no consideration shall be accounted for variations in the factors & forces of the market except the variations in government taxes & duties. BHEL shall have the right to foreclose the contract anytime by giving a prior notice period of one month.
- 2. BBU & Payment terms:** The invoices shall be raised by the Agency on monthly basis. The payment shall be made within 30 days from the date of presentation of invoices after recovering prevalent taxes & other dues, if any, as per the government rules. On account of absence of any supervisory personnel from duty due to any reasons the proportionate amount shall be deducted from the immediate invoice raised. BHEL Engineer In charge shall certify the attendance of personnel.
- 3. Facilities & amenities and other terms:**
 - a. Residential accommodation & transportation as available shall be provided
 - b. Available office accommodation, for the agency shall be provided within the existing office premise.
 - c. Mess facility, if available, shall be extended on chargeable basis, if requested.
 - d. Available first –aid facilities shall be extended. Agency shall make arrangements for other medical-needs including hospitalization etc for their employees. BHEL shall not be responsible for such eventualities on any ground.
 - e. In case of leave/sickness of the commissioning personnel, replacement shall be arranged by agency with no extra cost to BHEL without interruption to work.
 - f. BHEL reserves the right to discontinue deployment of one or more employees of Agency on certain grounds such as unsuitability, indiscipline, violation of rules & regulations laid down by BHEL & Customer (RGPPL) etc. and a suitable replacement shall be arranged by party within a notice of 2 weeks
 - g. All statutory requirements (both central & state government) including insurance coverage for the manpower deployed for this job shall be taken care by the agency & necessary evidences shall be submitted to BHEL after award of contract.
 - h. The agency is required to submit various reports as per schedule finally decided. For faster communication the agency is required to use a PC & a printer at the project site. Agency may make use of facilities in this regard, if available in BHEL office.

Special terms & conditions

1.0. Scope of work & Special terms and conditions:

The detailed scope of work for the subject work shall be as mentioned above under “Scope of main responsibilities of the agency”.

2.0. Period of Services:

The services shall be engaged for a period of about four months, which shall have the provision of extending the period for duration up to one year. In such event the man monthly rates will remain same & no consideration shall be accounted for variations in the factors & forces of the market except the variations in government taxes & duties. BHEL shall have the right to foreclose the contract anytime by giving a prior notice period of one month.

3.0. Earnest money deposit

Your tender should be accompanied by earnest money deposit as specified. Tender received without specified/ adequate earnest money is liable for rejection.

4.0. Payment Terms

Please also refer “Period of service, BBU/payments, facilities & amenities” section given above

5.0. Taxes and duties

The agency shall pay taxes, fees, license charges, deposits, duties, or other charges, which may be levied on services in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

Service Tax & Cess on Service Tax:

Service Tax and Cess on Service Tax as applicable on Services are excluded from Agency's scope; therefore Agency's price/rates shall be exclusive of Service Tax and Cess on Output Services. In case, it becomes mandatory for the Agency under provisions of relevant act/law to collect the Service Tax & Cess from BHEL and deposit the same with the concerned tax authorities, such applicable amount will be paid by BHEL. Agency shall submit to BHEL documentary evidence of Service Tax registration and remittance record of such tax immediately after depositing the tax with concerned authorities. Agency shall obtain prior written consent from BHEL before billing the amount towards such taxes.

6.0. Mobilization of site

The agency shall mobilize the team within ten days of placement of LOI by BHEL or on intimation by BHEL.

7.0. Validity

Your offer should remain valid for a period of six months from the date of opening of the tender.

8.0. Safety:

Agency shall adhere to all the safety provisions of our customer. In case violation of any provision at site fine of Rs. 500/- to Rs. 2000/- at the discretion of our site in-charge shall be imposed for each of such occasion and shall be recoverable from the Agency's bill.

9.0. Other conditions:

- a. A copy of tender document with each page duly signed and stamped shall be submitted along with your offer as a token of your unconditional acceptance to these tender conditions.

- b.** Also any deviation to the tender conditions shall be submitted in a separate paper duly signed by the bidder, any overwriting / correction by the bidder on the tender will not be recognized and the offer may be rejected on this ground.
- c.** 'General and special conditions of contract' enclosed herewith will be fully applicable, except otherwise stated in this enquiry. In case of any conflict, the conditions specified in this tender enquiry letter will prevail over that of the 'General and special conditions of contract'.
- d.** First, PQR then technical bids of bidders satisfying PQR will be opened and above documents scrutinized, If the documents are not found satisfactory, then the party may be called for discussion / clarification depending on time available with BHEL. In case of unsatisfactory details, the party will be disqualified and his price bid will not be opened.
- e.** Quality of commissioning work provided by the agency will be reviewed by BHEL engineer from time to time keeping in view the requirements to achieve desired results for which the agency has been engaged & in case unsatisfactory commissioning work is noticed, the agency shall take urgent actions to ensure in restoring the satisfactory commissioning work within seven days of review, failing which BHEL reserves the right to terminate the contract with the agency.

PART – III—Price bid
ANNEXURE C

Ref: PW/SAS/Dabhol II/commissioning manpower
Date: 13/02/06.

Sub: Manpower for commissioning assistance- Dabhol.

(To be submitted in bidders letterhead, and furnished in a separate sealed envelope, marked as `Price Bid`)

PRICE SCHEDULE

Details of work:

As per BHEL Tender Enquiry No-----, Dated -----, and Bidder's Technical Bid (offer) letter ref No., Dated

Total price for the above work is quoted as below:

Sl.No.	Description	Amount (in Rs.)	Amount in Words
1.	Monthly rate per Engineer		

Total Lump sum amount per engineer per month Rs. (in Words)
.....

SIGNATURE OF THE BIDDER
(WITH SEAL)

NOTE :No comments/remarks/conditions other than asked for, shall be put by the bidder on any page. Extra condition from the bidder, if any, shall be put on letterhead in the 'technical bid' only.