



**GUJARAT STATE ELECTRICITY CORPORATION LIMITED**

**THERMAL POWER STATION, UKAI**

ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 CERTIFIED

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# **TECHNICAL BID**

**WT NO. 2417**

**RFQ No. 24437**

## **TENDER FOR THE WORK**

**As and when required Item rate contract for Maintenance works - routine / schedule / preventive / breakdown / overhauling of ' K. G. Khosla / Kirloskar' make Air compressors with associated auxiliaries of Unit no. 3, 4 & 5 of Ukai TPS.**

**GUJARAT STATE ELECTRICITY CORPORATION LIMITED  
UKAI THERMAL POWER STATION**

**PRE-QUALIFICATION CONNDITIONS FOR TECHNICAL BID:**

- 01** The bidder shall have an experience of **Servicing / overhauling works of Balanced Opposed Piston (B.O.P) reciprocating type Air compressors having minimum capacity of air flow 12.43 Cu. meter/min and minimum discharge pressure 7.0 kg/sq. cm.** & who have carried out the similar type of work during last Five years satisfactorily at thermal power station, GSECL, NTPC and power generating station of other Electricity Boards/corporations, IPPs etc. Documentary proof of having executed such work will have to be produced along with quoted enquiry documents. However, issue of enquiry documents to any party will not automatically qualify any party as to its capacity to execute this work. GSECL shall assess the capacity of the contractor at the time of evaluation of bids.
- 02** Contractor has to produce following documents along with Technical Bid.
- a) Past executed order copies & Experience / Performance certificate of the work of Servicing / overhauling works of Balanced Opposed Piston (B.O.P) reciprocating type Air compressors having minimum capacity of air flow 12.43 Cu. meter/min and minimum discharge pressure 7.0 kg/sq.cm. done in last Five years carried out in GSECL, NTPC and power generating station of other Electricity Boards/corporations, IPPs etc.
  - b) Latest solvency certificate of minimum 20% of estimated value from any Nationalized Bank.
  - c) Copy of separate P.F. Code number and PAN number.
  - d) Service tax Registration certificate.
  - e) Labour license held by the party. After issuance of the contract order, the party will have to submit labour license before starting work. If the party / contractor fails to submit the required labour license in reasonable time period the contract order will liable to be terminated.
  - f) List of tools and tackles, mechanical measuring instruments etc available for this work.
  - g) List of available skilled manpower with experience and qualification. h) Transportation facilities available for emergency call.
  - i) Sch.A, Terms & conditions duly signed on each page, deviation if any clearly be brought out.
- 03** The offer without any of the above documents or non acceptance of any clause shall be liable for rejection in this regard the decision of CE (G), Ukai, TPS shall be final & binding to bidder.
- 04** Tenderer should also certify that the tender submitted is unconditional tender and specifically remarks "Unconditional Tender" on cover it self.

**INSTRUCTION TO BIDDER:**

- 01** Earnest Money Deposit @ 1% of estimated cost which will be accepted by crossed demand draft on Bank of Baroda / SBI, Ukai Branch in favour of GSECL. Enquiry submitted without EMD will be accepted, subject to amount of EMD must be paid in cash up to 13.30 Hrs. on the date of opening of the technical bids.
- 02** Each Enquiry duly offered in sealed super scribed with Enquiry No. and due date of opening shall be received by RPAD. The GSECL will not take any responsibility of the Enquiry not received on or before due date of submission by RPAD.
- 03** The undersigned reserves the right to accept / reject any or all Enquiries without assigning any reason thereof.
- 04** Any alteration / addition / deletion will not be considered after opening of Enquiries, unless called for by the GSECL for negotiations.
- 05** Subletting of Enquiry is not permitted, however sub-contracting is permitted with the consent of Chief Engineer (Gen.), GSECL Ukai.
- 06** The tender is to be submitted in two separate envelopes, one for Technical Bid & second for Price Bid and both envelopes should be packed in one envelope duly offered in sealed super-subscribed with tender number, name of work, due date of opening, photocopy of DD of EMD shall be received by RPAD only.
- 07** The Enquiries will be opened in the presence of bidders who wish to remain present at the time of date of opening of the tender enquiry.

**SIGN OF CONTRACTOR  
WITH SEAL AND DATE.**

**CHIEF ENGR. (GEN)  
GSECL: TPS: UKAI**

**GUJARAT STATE ELECTRICITY CORPORATION LIMITED  
UKAI THERMAL POWER STATION**

**SCHEDULE - A**

**Name of Work:-** As and when required Item rate contract for Maintenance works - routine / schedule / preventive / breakdown / overhauling of ' K. G. Khosla / Kirloskar' make Air compressors with associated auxiliaries of Unit no. 3, 4 & 5 of Ukai TPS.

**// GENERAL SPECIFICATIONS FOR AIR COMPRESSORS //**

UNIT # 3	UNIT # 4	UNIT # 5
<b>Make :</b> Kirlosker <b>Type :</b> T-BTD-JM <b>Total Installed Qty :</b> 06 nos <b>Capacity (FAD) :</b> 12.43 M <sup>3</sup> /min <b>Suction Pr.:</b> 1.033 Kg/cm <sup>2</sup> g <b>Working pr.:</b> 7.0 Kg /cm <sup>2</sup> g	<b>Make :</b> K. G. Khosla <b>Type :</b> 2HA2TERT <b>Total Installed Qty :</b> 06 nos <b>Capacity (FAD) :</b> 12.43 M <sup>3</sup> /min <b>Suction Pr. :</b> 1.033Kg/ cm <sup>2</sup> g <b>Working pr.:</b> 7.0 Kg/cm <sup>2</sup> g	<b>Make :</b> K. G. Khosla <b>Type :</b> 2HA2QT <b>Total Installed Qty :</b> 06 nos <b>Capacity (FAD) :</b> 16.2 M <sup>3</sup> /min <b>Suction Pr.:</b> 1.5 to 1.9 Kg/cm <sup>2</sup> <b>Working pr.:</b> 7.5 Kg / cm <sup>2</sup> g

**// SCOPE OF WORK //**

The scope of work consists and includes routine, schedule, preventive, breakdown and overhauling of Balanced Opposed Piston (B.O.P) type "K. G. Khosla / Kirloskar" make Air compressors [ Model: T-BTD-JM, 2HA2TERT, 2HA2QT ], maintenance of control air drier unit, Air dryer blowers, valves, solenoid operated 4-way/ 2-way valves, replacement of silica gel, hydro test of air receiver tanks, etc. for efficient operation as well as optimum out put of each air compressors of 200 /210 MW Unit no. 3, 4 & 5.

For trouble free proper assessment of mechanical maintenance of air compressor works, following brief description and guide line provided for reference of bidder.

**[1] DAILY CHECKINGS :**

- 1.1 Check the operating parameters viz. Lube oil pressure, First stage pressure and temperature, Second stage pressure and temperature at all measuring points, cooling water pressure / flow etc.
- 1.2 Check the oil level in the crank case.
- 1.3 Check suction pressure and delivery pressure.
- 1.4 Check HP / LP valves air leaks from its body, any abnormal noise sound.
- 1.5 Check the slide way on the cross head, gland and oil seal for abnormal heat generation and any leaks.
- 1.6 Check noise and vibration.
- 1.7 Check the valve cover and unloader piping for air leakage and the oil piping for oil leakage.
- 1.8 Check the gland for leaks.
- 1.9 Check the V belts.
- 1.10 Check any air, oil, water leakage from any parts of air compressor.
- 1.11 Check the tightness of bolts / nuts / flanged joints etc.
- 1.12 Check whether the drain traps on the intercooler & the after cooler for their satisfactory working.

## [2] ROUTINE MAINTENANCE WORKS:

- 2.1 Oil topping and maintain oil level in the crankcase.
- 2.2 Collection of dirty / waste oil.
- 2.3 Oil leakage attending from oil line / flange joint /oil filter / oil line replacement ( Inside / outside of compressor body) etc.
- 2.4 Oil leakage attending from crankcase top cover / flywheel side cover / LP-HP cylinder cross head guide.
- 2.5 Cleaning of lube oil cooler / tube leakage checking & plugging / replacement.
- 2.6 Replacement of oil filter element / complete filter assembly.
- 2.7 Belt removing, refitting & alignment / tightening for Electrical requirement.
- 2.8 Correction / adjustment of flapped / twisted /slipped "V" belt/s.
- 2.9 Replacement of damaged / broken "V" belt/s & alignment / tightening.
- 2.10 Replacement of new "V" belts.
- 2.11 Cooling water leakage attending.
- 2.12 Air leakage attending from compressor accessories viz. Inter / After cooler body, air delivery lines, air drying unit, volume bottle, HP/ LP cylinder body etc by welding work.
- 2.13 Air leakage attending from compressor parts viz. Suction / discharge valve packing, Loading-Unloading line joints, drain valves, air delivery pipe joints etc.
- 2.14 Replacement of Air / Water / Oil lines.
- 2.15 Repairing / Replacement of moisture drain vales
- 2.16 Replacement of air suction filter element / body
- 2.17 Replacement /refitting LP/HP cylinder oil scrapper / wiper ring, gland packing, three / six piece in gland box.
- 2.18 Replacement / refitting of LP / HP piston assembly after fitting of guide ring & piston ring and setting of clearances in the LP / HP cylinder.
- 2.19 Replacement of tube bunch of Inter cooler
- 2.20 Replacement of tube bunch of After cooler
- 2.21 Replacement /Overhauling of water valve, Discharge isolating valve & NRV.

## [3] SCHEDULED MAINTENANCE WORKS:

- 3.1
- 3.2
- 3.3
- 3.4 Inter / After cooler etc (For Unit # 5 compressors only). .... **15 Days**
- 3.5 Cleaning of LP cylinder water jackets .... **15 Days**
- 3.6 Cleaning of HP cylinder water jackets .... **15 Days**
- 3.7 Servicing of LP / HP cylinder suction / discharge valve ... **45 Days**
- 3.9 Replacement of oil from crankcase oil chamber .... **4 months**
- 3.9 Replacement of Silica gel of Air drying unit .... **Yearly**
- 3.10 Servicing moisture drain traps ... **30 days**

**[4] PREVENTIVE MAINTENANCE WORKS:**

Sr. Nos.	SUB ASSEMBLY	PART NAME	MAINTENANCE ACTIVITY	ACTION RECOMMENDED	DURATION
4.1	Bolts & Nuts	Cylinder nuts & foundation bolts	Check	Check the loosening and retighten	Weekly
4.2		Crosshead bolt, cap nut, head nut, rod nut	Check	Check the loosening and retighten	Weekly
4.3	Air Suction and Delivery valve of LP / HP Cylinder	Valve assembly, Valve spring, Valve plates, Valve packing	Servicing	Dismantle, clean, check for wear/damage, replace damage part, leak test & refit	45 days
4.4	Unloader	Suction Unloader	Servicing	Dismantle, clean, check the operation & refit	45 days
4.5	LP / HP Piston	Piston body, piston ring, guide ring	Check	Check the clearance, wear, damage, ovality	45 days
4.6	Inter cooler	Tube nest assembly, Intercooler casing	Cleaning	Clean the scales	4 months
4.7	After cooler	Tube nest assembly, Intercooler casing	Cleaning	Clean the scales	4 months
4.8	Connecting Rod & Main Bearing	Crosshead small end bearing, gudgeon pin, Big end bearing, Main bearing, Crankshaft	Check	Check wear, clearance & adjustment	6 months
4.9	Main Lubrication system	Gear pump, driving gear and oil pump	Check	Check wear of gears and bearings	6 months

In a schedule maintenance planning, for each compressor contractor has to follow up the maintenance schedule and as well as service manual of manufacture guideline. All the actions must be carried out intimation and knowledge of Engineer In-charge.

**[5]** Hydro test of each receiver tanks of air compressors is to be carried out as directed by Safety officer. Necessary provisions for the hydro test are carried out by the contractor in advance as per instruction of Engineer-In-charge.

**[6] FOR AIR DRYING UNITS:**

- 1) Overhauling and greasing of air drier sets two way and four way valve.
- 2) Maintenance of Air blower.
- 3) Replacement of silica gel / activated alumina.
- 4) Attending any air leakages of system.
- 5) Cleaning of all equipments.

**[7] COMPLETE OVERHAULING OF AIR COMPRESSORS:**

The complete overhauling of compressor by dismantling all the components of compressor, record the clearances, checking of wear & tear. Identify and replace worn out parts rectification of abnormality, if any observed. Replacement of worn out / damaged spares by new one or reclaim one, which ever is available with GSECL, matching of parts, to maintain clearances as per O&M manual. Refitting of entire compressor, while reassembly the clearances and important data are to be logged and record should be maintained. All these activities are to be carried out in presence of GSECL representative. During overhauling contractor shall have to carryout following work also.

Cleaning of inter cooler & after cooler, replacement / repairing of HP / LP valves, HP / LP piston / piston rod / rings, HP / LP cylinders, HP / LP end covers, overhauling of oil pump, replacement / tightening, alignments etc. After carrying out all above work as per instruction of Engineer In-charge as well as O&M manual procedure, the contractor has to offer 72 Hrs

trouble free trial run of overhauled compressor. If any defects / performance deficiency observed, shall be attended immediately by contractor. If GSECL is arranging any performance test of overhauled compressor, contractor shall have to coordinate and make necessary arrangement for performance test.

#### **[8] BREAKDOWN MAINTENANCE WORK:**

The breakdown maintenance work of air compressors consists of assessment of root cause of occurrence, assessment of damaged parts, Replacement of worn out / damaged spares by new one or reclaim one, which ever is available with GSECL, matching of parts, to maintain clearances as per O&M manual. Refitting of entire compressor, while reassembly the clearances and important data are to be logged and record should be maintained. All these activities are to be carried out in presence of GSECL representative.

The above scope of works is for brief information of contractor. Actually all maintenance works are to be carried out as per OEM's O&M manual recommendations.

In any case any item/s is/are not narrated in above scope of works but recommended by OEM's O&M manual, contractor shall have to carry out those works. The O&M manual recommendation shall be binding and dominant regarding this maintenance contract as this contract works is covers any kind of mechanical maintenance work of air compressor & air system inside air compressor house.

#### **// TECHNICAL TERMS AND CONDITIONS //**

**01. DESCRIPTION:-** This part of work contract consists and includes of all the maintenance works of Air Compressor, its accessories, valves, Air dryer unit, its valves and accessories to carry out the safe, smooth, economical & efficiently maintenance of the same. All above works to be carried out as per the scope of work, O&M manual service guide lines, O&M manual Inspection standards and as directed by Engineer-In-charge.

The Air compressors are remains in service round the clock. This para of contract also includes and consists of attending leakages and keeping air compressors & equipment neat and clean, checking its running parameters according to direction of O&M manual.

In short, the contractor is bound to do all the maintenance works related to air compressors and associated auxiliaries as per O&M manual and as directed by Engineer-In-charge.

**02.** The scope of work shall also include transportation, handling & re-crediting of old / new materials, equipments, spares etc. from GSECL Main store / Departmental store to site area and vice versa as directed by Engineer-In-charge. The dismantled items / equipments / spares shall have to be shifted or stacked properly immediately from working area to Main store or other department / areas of Turbine unit no. 3, 4 & 5 as part of this contract without any extra cost and as directed by Engineer- In-charge.

After required repair / maintenance works, the old spares should be removed immediately from the site and working area should be kept cleaned and cleared. Failing which **Rs. 300/- per day** shall be deducted from the contractor's bill.

**03.** The scope of work shall also include repairing / servicing of old removed parts /assembly etc. The contractor shall also keep certain parts assembly in ready position for immediate replacement i.e. suction / discharge valve assembly, LP/HP piston assembly, bearings etc. The old removed suction / discharge valve assemblies are dismantled, servicing, cleaned and reassemble for reuse as directed by Engineer-In-charge.

**04. In addition of General Description, T&C, mentioned elsewhere, in this tender documents bellow listed special terms & conditions are pertains to maintenance work of Air Compressor.**

04.01 The contractor will have to keep his / their maintenance staff in general shift duty. In emergency work, he is bounded to work round the clock till the work completion. No additional payment shall be made for extra time or man power.

04.02 The contractor shall be equipped / mobilized / ready in all respects with required / sufficient skilled manpower and all necessary general tools tackles to take-up any type

- of maintenance job on air compressors and its auxiliaries either online, preventive and /or breakdown of any compressor at a short notice of one hour.
- 04.03 Contractor should be resourceful with sufficient skilled staff and labours every day from existing staff in such a way that breakdown work can be carried out within short time, otherwise **Rs. 500/- per day** of generation loss will be recovered from the bill.
- 04.05 The contractor will have to engage more manpower (maintenance staff) as and when required as per condition or as per instruction of GSECL representative for urgent work.
- 04.06 In case of breakdown maintenance the contractor shall have to mobilize all his resources within one hour of notice and take-up the required jobs as directed by Engineer-In-charge on emergency basis and shall have to complete within least possible time.
- 04.07 Contractor has to furnish the list of persons engaged every day in the Unit no. 3, 4 & 5 in the form of attendance sheet to the Engineer-In-charge on demand.
- 04.08 The contractor's maintenance supervisor or staff will have to report for duty everyday morning before starting the job to the representative of GSECL. Non-reporting of contractor's maintenance staff will be viewed seriously as considering negligence of work.
- 04.09 The contractor's staff (supervisor or technicians) must be available during general shift and when work is going on.
- 04.10 The contractor's supervisor / technician has to entirely check all the air compressors and its accessories every day while starting general shift & record the observations.
- 04.11 The contractor's maintenance staff will have to check the parameter of Air compressors & air dryers, oil temp & pressure, water temp & pressure, air pressure at various stage, loading / unloading of system etc, which have to remain within its working limit prescribed by the manufacturing O&M manual.
- 04.12 All the standby compressors should be ready to put service, maintenance of running compressor should be arranged in such a manner so that difference between max. running and minimum running hours of different compressors should not be more 120 hours.
- 04.13 Any drop in air pressure due to leakage / heavy leakage inside compressor house must be attended immediately to avoid emergency in plant and overburdening of compressor.
- 04.14 During the maintenance work, contractor staff should be more vigilant and careful while handling heavy spares besides running air compressors.
- 04.15 The contractor shall be kept and maintained air compressors and surrounding area neat & clean free of debris, scrap, dust, lubricant, oil all the times so that work is not held up at any time and exercise following checks regularly in co-ordination with operating staff, oil level, oil pressure, water temperature of inter cooler, after cooler, I<sup>st</sup> and II<sup>nd</sup> stage of air temperatures, air & oil leakage attending work.
- 04.16 The contractor will have to maintain a log book in which required parameters, details of spares used, oil consumption etc. to be noted for each compressor separately. Scrap material and used worn-out unserviceable spares must be returned as per procedure of GSECL.
- 04.17 The contractor's maintenance staff should report any defect observed or given by operation section or any complain-faults-wear & tear etc. to the site Engineer -In-charge & will have to arrange the rectification.
- 04.18 The line clear / PTW shall be issued to the contractor or their authorized technical supervisor for maintenance work and work shall be treated as completed when the equipment is accepted by operational staff and put into service. Any defects / work request noticed on putting air compressors into operation after repair shall have to be rectified as part of this contract immediately.
- 04.18 In case of any work on motor side and if removal of motor coupling is required from EMD side, the contractor has to carry out de-coupling of belts / alignment and re-coupling of belts etc. of the compressor immediately after getting clearance from EMD side.

- 04.19 The maintenance of Air Compressors should be fully efficient, i.e. oil consumption, power consumption, consumption of spares should be optimum.
- 04.20 In case of damage caused to accessories or air compressor itself due to poor maintenance and carelessness or negligence etc of contractor's maintenance staff, same should be rectified / repaired / replaced by contractor at his own cost & report of such occurrence should be made immediately to GSECL authority.
- 04.21 During the maintenance work, any damage to valuable parts of GSECL or damage to the parts due to mis-handling and excessive wastage of material will be considered seriously and **Rs. 1000/- per item** will be deducted from the bill. The amount will be decided by Engineer-In-charge and binding to the contractor.
- 04.22 Contractor has to carry out repairing / welding of the minor damaged / broken worn out spares, however, if spares / components are felt beyond repair by Engineer – in-charge then same shall be supplied by GSECL at free of cost to contractor for replacement. However decision of Engineer-in-charge shall be final and binding upon the contractor.
- 04.23 The contractor shall be allowed to use overhead trolleys chain pulley blocks provided in air compressor plant. However same shall be used without any damage. Any damage shall have to be repaired or replaced by the contractor; otherwise recovery for the same shall be made. Overhead trolley chain pulley blocks are to be maintained in good condition by the contractor, such that it will not fail. Party has to arrange other chain pulley block / overhead trolley at his own cost if damaged till it is repaired.
- 04.24 At any instant / incident, the contractor's staff is / are not available for the works, GSECL has every right to carry out these works, either departmentally or by deploying other agency at all risks and cost of contractor.
- 04.25 Contractor shall collect all dirty lub oil / unserviceable lub oil in empty drum and shall credit the same to Main store / Substore / Other department.
- 04.26 The unit-wise history register of inspection & replacement of air compressor spares, consumption of lub oil shall be kept & maintained by the contractor & submitted to Engineer-in-charge every week or as and when demanded by Engineer-in-charge.

## **05. FACILITY:**

### **05.01 Following facilities will be given by GSECL free of cost.**

- 1) Required spare parts of air compressors, gaskets, nut bolts, grease, special slings, welding rods, O2 / DA, copper /MS / GI piping etc. as per requirement.
- 2) Compressed air, water as per requirement in each unit.
- 3) Electrical connection at one mutually agreed point in each unit will be given free of cost and consumption will be given free of cost from the said points.
- 4) Crane / forklift facility for heavy parts shifting from main store to site shall be provided if available.
- 5) Workshop facility only related to this work contract if available.

### **05.02 Following items are to be arranged by contractor at his own risk and cost.**

- 1) Arrangement for required tools and tackles, welding machine, grinding machine, consumables items i.e. Diesel, petrol, kerosene, cotton waste, majarpath, cleaning brush, emery paste, rustolene, grinding wheels, etc. required to attend the job.
- 2) Transportation of spare parts from main store to site, crediting of old parts / replaced spare parts to be credited to main store, etc except heavy components viz. HP / LP Cylinder, Crankcase, Flywheel, Cross head, Cross head guide, motor pulley, LP / HP piston assembly, Inter / After cooler tube bunch etc.
- 3) Transportation of manpower during odd Hrs. or during night to be arranged by the contractor.
- 4) Accommodation to their staff will be arranged by contractor at his own cost.
- 5) PPE's like goggles, helmets, safety boots and ear plugs etc. for their staffs to avoid any accident.



**05.03 Following facilities will be given by GSECL on chargeable basis if available.**

- 1) Medical facility if available with GSECL.

**06. PENALTY CLAUSE:**

- 1) The contractor has to carry out complete overhauling of air compressor as per schedule 'B' and completed within specified time limit by contractor, failing which the penalty at the rate of 0.5% of the contract value per day to the extent of 10% of contract value will be levied and will be recovered from the party's bill.
- 2) To keep the each air compressors in good condition, some preventive / scheduled checks are prescribed in scope of work. Non-implementation of such checks of running each air compressors will result in deduction of Rs.300/- per air compressor per each check as required.
- 3) Occurrence of poor workmanship, frequent repeated maintenance will be viewed seriously. The amount of Rs. 500/- per occurrence shall be deducted from the bill with the approval of competent authority.

**07. UNSATISFACTORY PROGRESS OF WORK :**

If the work of contractor is found unsatisfactory or not progressing according to the requirement, the GSECL may take such action as deemed fit to see that the work is completed in time at your risk and cost including Termination of contract or penalty.

**08. CLEANLINESS:**

The contractor is responsible to keep the work area cleaned day to day. No separate payment shall be made for keeping the work area clean. However an additional penalty on delays at 5 % of the total value of work executed shall be levied, if the contractor fails to keep the work area clean and at least three warnings shall be issued to the party by GSECL In-charge Engineer in this regard.

**09. AGREEMENT:**

The successful Bidder will have to enter in to an agreement on stamp paper of appropriate value OF Rs. 100/- with GSECL in the prescribed format within one month. The cost of stamp fee shall be borne by contractor.

**10. SECURITY DEPOSIT:**

The successful Bidder will have to pay total 5% of the order value as security deposit is to be paid by D.D.

The amount of Security Deposit will be refunded after satisfactory completion of work and after deducting any dues of the Company.

**11. DISPUTE:**

In case of any dispute, the decision of the Chief Engineer, GSECL, UTPS shall be final and binding to the contractor.

The GSECL reserves the right to split each item in to more than one agency and place the order accordingly. All parties should therefore, carefully evaluate and fill up the rate, keeping themselves ready to execute order for any one item or more, allotted to them by the GSECL.

**12. STATUTORY VARIATION:**

Any statutory increase or decrease in the taxes and duties subsequent to your offer if it takes place within the original contractual delivery date will be paid / recovered subject to the claim being supported by documentary evidence. However, if any decrease takes place after the contractual delivery date, the advantage will have to passed on to the GSECL.

**14. TERMS OF PAYMENT:**

- (a) Payment will be made through monthly R.A. bills after recording as per GSECL's procedure within 30 days.
- (b) The final joint measurement will also be completed as early as possible after handing over the completed work in all respects and final bill will be prepared and paid as soon as possible thereafter.

**15. TIME LIMIT:**

- (a) The time limit for the completion of this contract works is **24 (Twenty four) months** from the date of commencement of the work.
- (b) The time limit for the completion of work of Complete overhauling of each Air compressor (i.e. Item sr. no. 30 of Schedule-B) is **10 (ten) days** from the date of commencement of the work.

**16.** GSECL reserve right to extend the contract for further on completion of contractual period for a mutually agreed period and it will be binding to the contractor as per the same rate, terms & condition of original order for extended period without any further amendment.

**17. VALIDITY:**

The tender shall remain open for acceptance for a period of at least 90 days from the date of price bid opening. The date of price bid opening will be intimated by Company.

**18.** The "General Terms and Conditions" are as per enclosed sheet.

**19.** GSECL will provide unfurnished bachelor quarter/ hostel to Tenderer, if available, after meeting the requirement of GSECL's staff. The Tenderer shall have to pay the rent of the quarter/ hostel as per GSECL's rule.

**SIGN OF CONTRACTOR  
WITH SEAL AND DATE**

**CHIEF ENGR. (GEN)  
GSECL: TPS: UKAI**

**GUJARAT STATE ELECTRICITY CORPORATION LIMITED**  
**UKAI THERMAL POWER STATION**

**GENERAL TERMS & CONDITIONS:**

01. The 'contractor' means the documents forming tender and the subsequent agreement that may be entered in to.
02. The general rules and regulations of the Corporation for tender and contract for works will apply to the extent the same are not modified herein. Any other rules and regulations, conditions etc. that are in force at present and that may be framed by the Corporation from time to time in connection with contracts will be binding and acceptable to the contractor.
03. Sub-letting or tradable of contract without prior written approval of Corporation will be treated as a breach of contract and it will be punishable by forfeiting the security deposit as well as termination of contract.
04. The successful bidder will have to pay total 5% of the order value as security deposit is to be paid by D.D.
05. The successful bidder shall hold the Corporation indemnified against and in respect of any claims arising out of injury to any persons (s), loss of life; workman's compensation and any other The Bidder claims whatsoever. The contractor shall be responsible for any damages to any property of the Corporation due to negligence of the contractor on his employees. The Corporation will be entitled to recover the damages from the contractor and it shall be final and binding to the contractor.
06. The successful bidder will have to enter in to an agreement with the corporation and the cost of the stamped paper shall be borne by the contractor, the contractor shall also have to execute an indemnity bond on required value of stamped paper as per Corporation's rules. The cost of the stamped paper will be borne by the contractor.
07. **Arbitration Clause:** All questions, disputes, or difference, whatsoever which may at any time arise between the parties to this contract in connection with the contract or any matter arising out of or in relation thereto, shall be referred to the Gujarat Public Works Contract Dispute arbitration as per the provision of the Gujarat Public Works Contracts Disputes Arbitration Tribunal Act-1992.
08. The successful bidder shall strictly observe all the Labour laws and Factory acts in existence and amendments made from time to time.
09. The work shall be completed within stipulated time. If required, The Bidder will have to work round the clock to maintain the work schedule.
10. Payments shall be made as per actual work done only.
11. The successful bidder shall have to take all necessary precautions to avoid fire during cutting welding etc. in case of any smoldering fire, the same should be extinguished by contractor immediately using their own labour tools water and buckets etc.
12. The Bidder shall arrange his own adequate tools and tackles welding accessories drilling machine, grinders, scaffolding/lighting materials including lighting transformers as per IS-1416 etc. required for the work included in Schedule-A.
13. The successful bidder has to carry out the work at site only. If work is found unsatisfactory or not progressing according to the schedule given by the GSECL, then the GSECL reserves rights to terminate the contract without assigning any reasons thereof and the remaining work can be allotted to same other agencies at your risk & cost.
14. Before starting the contract, the party has to furnish the documents for insurance of workers, failing which the contractor shall not be allowed to commence the work.
15. An authorized technically qualified representative of the contractor must be available at site while the work is going on. The address of the representative should be submitted to

- this office so that The Bidder's representative can be contacted whenever, required in connection with execution of the work.
16. Scaffolding material, if available with GSECL, will be issued on chargeable basis otherwise contractor will have to arrange for the same at his own cost. After completion of work scaffolding is to be removed immediately.
  17. After completion of work, working area and surrounding area should be made clean by removing M.S. debris & all types of scrap etc. scrap should be credited to main store only & it should be dumped at place shown by EE (Store).
  18. The Bidder shall submit daily progress report for the work carried out by them.
  20. The Bidder if desires can see the plant and site of work with permission of under signed on any working day during working hours.
  21. The Bidder shall have to submit their own P. F. Code number if allotted by RPF Commissioner / P.F. Authority. In case the P.F. Authority has not issued. Allotted P.F. Code number to you then you shall have to comply with the provision of the P. F. Act and submit the P.F. Contribution of your Employees and Contribution of yourself to the P.F. Trust of the Corporation.
  22. All the employees engaged by you will be covered under P. F. Act and if you are denied the separate P. F. Code number by the P.F. Authority than you will have to submit the P.F. Contribution along with administrative charges to GSECL P.F. Trust without fail. If you will not comply this condition the final bill will not be released.
  23. This contract or any part thereof shall not be sublet to or assigned to any other party/ contractor without written permission of the GSECL.
  24. The party has to arrange for the accommodation for their all staff at his own cost.
  25. Income tax will be deducted as per prevailing rate.
  26. The tender should be submitted along with EMD, without which no tender will be accepted.
  27. The details of payment of EMD & Tender fee shall be clearly indicated and furnishing of MR / DD no. on technical bid of tender covers itself.
  28. Conditional tender will not be accepted, withdrawal of condition unilaterally after opening of tender will not be permitted.
  29. Contractor shall submit tender along with detailed list of similar works carried out by him indicating place of work, contract values and names of organizations along with certificates for satisfactory performance of work.
  30. The Bidder shall quote only in single percentage of rate above or below the estimated rates i.e. contractor should quote either say percentage above estimated cost for the item or say below the estimated cost for the item detailed at schedule-B.
  31. After completion of contract work the work completion certificate is required to be produced before the DGM / IRO for the purpose of no dues certificate and cancelation of gate passes issued to the contractors work men at the time of execution of the contract work.

**SIGN OF CONTRACTOR  
WITH SEAL AND DATE.**

**CHIEF ENGR. (GEN)  
GSECL: TPS: UKAI**

**GUJARAT STATE ELECTRICITY CORPORATION LIMITED**  
**UKAI THERMAL POWER STATION**

**01. Terms and Conditions regarding Industrial Laws and other related matter.**

- 1.1 Wages to be paid and time of payment etc. by the contractor.
- 1.2 The contractor shall pay minimum of wage per day as prevailing as may be specified here after or rates fixed under the minimum wages act. Whichever, is higher the wages of every contract labour employed by him under the contract shall be paid by him before the expiry of 7<sup>th</sup> day of the latest day of the month in respect of which the wages are payable (i.e. wages of a month to be paid by him are in the 1<sup>st</sup> week of the next month.) The payment shall be disbursed in the presence of management Representative during the working hours in factory premises and the contractor shall get the entries certified in the wages by the representative of the Corporation default will result in cancellation of contract forthwith or else the contractor shall be punishable to the extent of Rs. 400/- fine per each day.
- 1.3 The contractor shall give his telephone number and address to the Corporation so that in case of labour trouble etc. The contractor can be contacted. The contractor shall arrange to have his office outside the factory premises and the contractor keeps himself present throughout the working hours." As a contractor you will be responsible and liable to pay difference in wages if any and or observed the revised service condition that may be awarded by the honorable industrial tribunal effective from the date directly in the Award. "

**02. LABOUR LAWS:**

- 2.1 Person below the age of 18 years shall not be employed for the work.
- 2.2 No female worker shall be employed in the Night shift between 7-00 p.m. to 6-00 a.m.
- 2.3 Contractor shall maintain a valid labour license under the contract labour (Regulation & Abolition) Act for employing necessary manpower to be required by him. In the absence of sub license to contract shall be liable to be terminated without assigning any reasons there of.
- 2.4 The contractor shall at his own expense comply with all labour laws and keep the Corporation indemnified in presence thereof. Some of the major liabilities under various labour and industrial laws which the contractor shall comply which are as under:-
  - 2.4.1 Payments of contribution by way of an employer's contribution towards provident fund, family pension scheme, deposit linked insurance scheme, Administrative charges etc. at the rate made applicable from time to time by Govt. of Gujarat, Govt. of India or other Statutory Authorities.
  - 2.4.2 Payment of deposit in respect of each contract labour at the rate of Rs. 30/- with the office of Commissioner of Labour as per the contract labour (Regulation & Abolition Acts.)
  - 2.4.3 License Fee as prescribed under the contract labour (Regulation & Abolition) Acts & Rules framed there under or depending upon the number of workmen employed by the contractor.
  - 2.4.4 Paid leave facility and wages as per the provision of the Factories Act the rate of one day for every twenty days of working.
  - 2.4.5 Identity cards as prescribed under the Factories Act with photo affixed there to, the same for identification.
  - 2.4.6 Payment of retrenchment compensation, notice pay and other liabilities as per industrial dispute Act. Payment to the contractor's employees arising out of plain or dispute under the Industrial Dispute Act-1947 or any other labour laws.
  - 2.4.7 Payment of compensation in case of accidental injury.
  - 2.4.8 Provision of creche if the female labour employed, is more than 30.
  - 2.4.9 Maternity leave as per the provision of the maternity Benefits.The above are some of the major liabilities of the contractor in addition to other liabilities prescribed under the various labour laws in force from time to time from statutory authorities like Govt. of Gujarat, Govt. of India which the contractor shall have to comply with.

**3. PROVIDEND FUND AND FAMILY PENSION SCHEME:**

The contractor shall submit along with his bill (month wise) a statement regarding deductions against employees provident fund and family pension scheme at the rate of 8.35 % (or at the rates made applicable by the Government from time to time) of the wage. The contractor's contribution and his workers contribution towards provident fund family pension scheme shall be deposited by the contractor with Regional Provident Fund Commissioner, Ahmedabad.

**4. DEPOSITE LINKED INSURANCE SCHEME:**

The contractor shall have to deposit ½ % of the wages in respect of employees who is member of the provident fund contribution of the deposit linked insurance scheme with Regional Provident Fund Commissioner, Ahmedabad.

**5. ADMISTRATIVE CHARGES:**

Administrative charges for maintaining provident fund account shall be deposited by the contractor with Regional Provident Fund Commissioner, Ahmedabad at the rates applicable.

**6. PAID LEAVE FACILITY:**

Paid leave facility at the rate of one day for every twenty days worked by the contract labour shall be provided by the contractor to his workers. He shall maintain leave records/leave and for individual labourer which shall be duly verified and approved/certificate by the authorized office or the Corporation.

**7. WORKMEN'S COMPENSATION FUND AND EMPLOYER'S LIABILITY: INSURANCE:**

The contractor shall cover all his employees under workman's compensation fund and under the liability insurance.

**8.** The contractor shall employ adequate number of experienced staff at site for daily supervision and for maintenance of various registers and records required under the laws and contract No. Payment for supervision shall be admissible.

**9. CONTRACTOR TO INDEMNIFY THE CORPORATION :**

The contractor shall identify the Corporation and every member, Officer and Employees of the Corporation ,all Engineers in charges and his staff against all action, providing claims demand costs and expensed what-so-ever, arising out of connection with the matters referred in clause 15 & elsewhere and against all actions, preceding claims, demands, costs and expenses which may be made against the Corporation of Govt. for or in respect of arising out of any failure by the contractor in the performance of obligation under the contract document. The Corporation shall not be liable for or in respect of or in consequent of any accident or inquiry in any workmen of other person in the employment of the contractor or his sub-contractor, and the contractor shall indemnify and keep indemnify all claims demands proceeding costs charges and expenses what-so-ever in respect thereof or relation thereof.

**10. WORKMEN COMPENSATION & EMPLOYERS LIABILITY INSURANCE :**


Insurance shall be affected for all contractors' employees engaged in the performance of this contract. If any of the work in subject, the contractor shall require the sub-contractor provided workman's compensation & employer's liability insurance for the letter's employee unless are covered under the contractor's insurance.

**11.** The Corporation reserves the right to terminate this contract at any times during its tendency without giving notice of termination or any reasons thereof.

**12.** The Corporation will be entitled to deduct directly form the bills to be paid to the contractor any sum or sums payable by you and which sum/sums the Corporation is required to pay as a principal employee on account of your default in respect of all liabilities referred to in above clauses.

**SIGN OF CONTRACTOR  
WITH SEAL AND DATE**

**CHIEF ENGR. (GEN)  
GSECL: TPS: UKAI:**

UTP – SAFETY - 001	REV:00	15/12/2008	Ukai - TPS
<b>“GENERAL SAFETY RULES / NORMS” TO BE OBSERVED BY THE CONTRACTORS</b>			

All the contractors working at Ukai Thermal Power Station shall have to strictly observe the following Safety Rules. The Contractors shall be responsible for informing & observing these rules by their supervisors / employees / labours as well as the supervisors / employees/ labours of their sub-agencies / sub-Contractors engaged, if any. Prior to commencement of the work, Contractor shall have to submit a written assurance on their letterhead to the concerned Sectional Head / Engineer-in-charge that they have thoroughly gone through these Rules, have educated their employees / employees of their sub contractor and will strictly observe the said Rules while execution of work under work contract awarded to them. They will have to indemnify the Corporation for any loss or damage / accident / injury to the Corporation's property / employee or employee of their own in default of non - observing these rules.

- 01 Persons to be employed for carrying out the work shall possess required qualification, be fully trained and conversant for works to be done. All persons should have gate pass. Register consisting the full details (i.e. address, phone no, details of nearest relative, etc.) of all persons is to be maintained. During the work execution, one trained & competent supervisor should always remain present at site.
- 02 The contractor shall take all the required safety measures prior to commencement of work on dangerous substances, machineries or area at which cautionary notice is displayed and obtain — Line Clear“ or —Work Permit“ through the concerned Department / Section.
- 03 Prior to carrying out welding, gas cutting, furnace heating or any other hot work job, the contractor shall remove all the inflammable material lying at or nearby worksite or cover it properly by suitable protective covering. Also, special care shall be taken before carrying out such job & see that all possible contributing factors to set fire shall be removed / vanished prior to commencement of the work. Advance intimation shall be given to concerned section / fire section to commence the work in fire prone areas. They should also keep ready all the First Aid Fire Extinguishers / equipments & fire extinguishing media / material like sand / water buckets or other appropriate equipment at such place.
- 04 While carrying out work in confined space or inside vessel, the contractor shall obtain necessary —Confined Space / Vessel Entry Permit“ from concerned department prior to commencement of the work.  
For lighting in such areas, only 24-volt (ISI certified & with proper guard) hand lamp shall be used.  
For taking care of the persons working inside the confined space / vessel, a supervisor / person capable to keep continuous watch on person(s) working inside, assist them incase of emergency or arrange to get immediate outside help, shall remain present at entry point and shall use full body safety belt without fail.  
While working inside sewage, trench or in-depth, a person to warn outsiders / entrants / passers etc shall remain available near entry point or the entry point shall be cordoned by a barricaded tape with a cautionary notice. After completion of the works, all the lids / covers / grills / grits opened, shall be re-fixed / re-placed in the original position as it were prior to commencement of the work and leave the work place in safe condition in all respect, so as to prevent accident to fellow workers.
- 05 The contractor shall see that he / his persons do not block (by stacking material, spare parts, tools-tackles, equipments etc), any passages / walkways / gangways / aisles / staircases / ladders / lifts or any other approaches / roads leading to plants or its auxiliaries, on which there is a traffic movement or possible traffic movements in case of emergency. Such passages are meant for safe escape in the event of emergency. If it is utmost necessary to carry out work in such area with blocking of passage, prior permission of Competent Authority or the Engineer-In-Charge shall be obtained. To demarcate / declare the area as UNSAFE, cordon it using barricading tape & display suitable caution notice or keep a person to restrict / divert the traffic on this route through other safe passage.
- 06 Prior to use power / electrically operated hand tools / equipments / machines / gadgets like welding

machine, hand grinder, hand drill etc, ensure for its safe operation & use it only if it is found safe to use. Do not use defective, unsafe or improperly maintained equipments. The electrical power supply required to run such equipments shall not be taken directly at their own but shall be obtained through concerned Electrical Maintenance Departments or their authorized persons or under their observations / guidance only. The Electrical Section shall provide temporary electrical connection up to contractor's Mains Board on which it is compulsory to install mains switch, ELCB & fuses of adequate capacity. All such equipments shall invariably be earthed adequately to prevent electrical shock, sparking, short circuit etc. Power cord to be used shall be of adequate capacity, without any joint & shall consist of earth wire also. Hence, it is necessary to use adequate capacity 3-wire power cord for single & 5-wire power cord for three phase power connections. The plugs, receptacles, pins, holders etc shall be of adequate capacity & safe to use. All electrical & mechanical equipments / tools-tackles viz. welding machine, cutting machine, Grinder, Drill, Chain Pulley Blocks, Hook chooks etc required to be used during work execution shall be of standard make & bear ISI certification mark on it. The consumables like welding electrodes, grinding wheels / discs etc which has specific prescribed life span shall not be used in any case if its expiry date is over.

- 07 It is compulsory to use standard make Personal Protective Equipments (P.P.Es.) as per the job requirement. Do not work without use of required P.P.Es. Contractor is responsible to provide standard make (ISI approved) Personal Protective Equipments / Safety Gadgets suitable to give sufficient protection against hazards involved in their work / job to their staff, as per the job requirement and insist / enforce their staff to put on the same while at works. The ongoing work is liable to be stopped at any time if the contractors' staff is found working without P.P.Es. Following is the list of various P.P.Es. to be used for various works / worksites.

#### List of safety equipments

01	Industrial Safety Helmet	For protection of head against falling objects or during fall of person from height.
02	Safety Goggles (Grinding, Welding, etc).	For protection of eyes against flying particles / dust, chemical splash, spark, arc, flashover etc.
03	Face shield (Half or full).	For protection of face against flying particles / dust, chemical splash, spark, arc, flashover etc.
04	Earplug / Ear muff	For ear / hearing system protection while working in high noise level area.
05	Apron (Rubber / PVC / Asbestos / Leather / Cotton).	For body protection against chemicals, oils, sharp edged objects, heat, hot objects etc
06	Gloves (Rubber/PVC, Asbestos, Leather, Electrical shock proof).	For protection of hands against chemicals, oils, sharp edged objects, heat, hot metals/objects, electricity etc.
07	Safety / Leather / Asbestos shoes, Gum Boots etc.	For protection of leg/feet against falling objects, sharp edged objects, heat, hot metals/objects, electricity etc.
08	Safety Belt(full body) / Rope / Life line / Fall prevention system etc.	For fall prevention while working at heights or in depth, working in vessel or in confined space.
09	Dust Respirator / Scarf.	Protection of respiratory system against dust.
10	Chemical Cartridge Respirator	Protection against chemical fume / vapor etc.
11	Canister Gas mask.	Protection against toxic/poisonous fumes/ gases.
12	Air supply respirators	Working in oxygen deficient zone.

- 08 Before using lifting machines / tackles (like C.P.Bs., Hook chooks, winch, forklift, mobile crane, EOT crane etc) & its attachments (like D-shackles, slings, U-clamps, Eye bolts or any fixtures), it shall be checked and used only if found safe to use. Also, ensure that these are tested, examined & certified in form no 9 / 10 by Competent Person as per the Factory act-1948 and its validity is not expired. Further, it shall be fixed properly and firmly prior to lifting the weight.
- 09 Scaffoldings to be used for working at height shall be of adequate size & capacity. Obtain the work permit when working at height. While climbing on such scaffolding or working on any structure at height, use of full body safety belt & Helmet is compulsory. It is also necessary to



fasten chinstraps of the helmet.

- 10 Contractor or their employee shall not interfere in day-to-day routine plant activities / works except the work assigned to them, shall not loiter in the areas other than their work jurisdiction, as well as shall not temper / operate / touch the machineries / equipments / auxiliaries with which they are not concerned. Also, the contractor shall strictly instruct their staff not to sit or take rest at / near / below running plants, auxiliaries, systems or any place which is risky, hazardous & prone to accident.
- 11 The cylinders containing poisonous / toxic or inflammable / explosive gas like Oxygen, Acetylene, LPG, Hydrogen, Ammonia, Chlorine, CO<sub>2</sub> etc shall be handled safely taking due care. To handle / shift such cylinders a special trolley / cage meant for it must be used but in no case it should be rolled. Domestic LPG cylinder shall not be used / permitted.
- 12 On completion of the work, cotton waste, spilled oil / grease, pieces of welding rod & other waste material shall be removed from work site and the area shall be left safe, neat & clean.
- 13 In case of any injury / accident while working, it shall immediately be reported to Safety Department through concerned Sectional Head / Engineer. The prescribed Form No. 21 may be obtained from concerned section or Safety Officer.  
For any incident occurred but have no injury to any persons should also be informed to Safety Officer as —Near Miss Incident.“
- 14 In all risky jobs, before starting the work, contractor should obtain General Safety Work Permit from concerned section well in advance.
- 15 In case of noticing smoke or fire during their work execution, they shall make immediate efforts to extinguish / control it and simultaneously inform the Fire Brigade on phone No. 4444 or 4344 or 5555 or 02624-290049, shall shift the casualty to nearby hospital after rendering first aid in case of accident.
- 16 Over & above these, contractor shall have to follow all the safety requirements / rules & regulations / norms and legal provisions laid down in various statutes, particularly the provisions of The Factories Act-1948 & The Gujarat State Factories Rules-1963 (Amended up to date) shall be followed strictly. The contractor shall also obey the rules / regulations / instructions of the local Competent Authority for safety requirements.
- 17 No women or young person shall be allowed to clean, lubricate or adjust any part of a prime mover or of any transmission machinery while the prime mover or transmission machinery is in motion. Examination or operation of motion machinery shall be made or carried out only by a specially trained adult male worker wearing tight fitting clothing as per section 22 of factories act 1948.
- 18 No women or young person shall be employed or permitted to work in Lead-compound area like battery room etc. as per schedule VI of GFR 1963.
- 19 All the relevant labour and industrial laws shall also be followed compulsorily.
- 20 It is felt necessary to deploy safety officers / Safety supervisors by contractors / Agencies involved in carrying out hazardous activities / operations inside TPS to have better and constant supervision in terms of Health Safety and Environment activities.
- 21 In case, it comes to the notice of GSECL UTPS management that the safety guidelines / safety rules / safety norms are not being followed then a minimum sum of Rupees One Thousand shall be penalized on the contractor / Agency and for subsequent such violation, a severe penalty / action as deemed fit shall be imposed, which may please be noted.
- 22 The above rules shall be scrupulously followed and where required, they may contact the Safety Officer for any ambiguity / further guidance in this regard.
- 23 For performance evaluation of contractor, safety factors of work accident, fire incident & near miss accident will be considered. Steps can be taken to review the job assignment up to cancellation for negligence.

**SIGN OF CONTRACTOR  
WITH SEAL AND DATE**

**CHIEF ENGR. (GEN)  
GSECL: TPS: UKAI:**

**ANNEXURE**

**NAME OF WORK:** As and when required Item rate contract for Maintenance works - routine / schedule / preventive / breakdown / overhauling of ' K. G. Khosla / Kirloskar' make Air compressors with associated auxiliaries of Unit no. 3, 4 & 5 of Ukai TPS.

**On Firm's Letter Head**

**CERTIFICATE – “A”**

I / We \_\_\_\_\_ authorized signatory of  
M/s \_\_\_\_\_ here by certify that M/s  
\_\_\_\_\_ is not related with other  
firms who have submitted tenders for the same items under this inquiry / tender.

Seal of the Firm

Place:

Date:

Signature of the Tenderer  
With Designation

## INTEGRITY PACT

### OUR ENDEAVOUR

To create an environment where Business Confidence is built through Best Business Practice and is an atmosphere of trust and respect between providers of goods and service and their users for the ultimate benefit of society and the nation.

Sr. no	GSECL'S COMMENTS	THE BIDDER'S COMMENTS
1	To maintain the high ethical standards in business and professions	Not to bring pressure recommendations From outside GSECL to influence its decision.
2	Ensure maximum transparency to the satisfaction of stakeholders	Not to use intimidation, threat, Inducement or pressure of any kind on GSECL or any of its employees under any circumstances.
3	To ensure to fulfill the terms of agreement / contract and to condenser objectively the viewpoint of parties.	To be prompt and reasonable in fulfilling the contract, agreement, legal obligations.
4	To ensure regular and timely release of payment on due dates for work done.	To provide goods and/or service timely as per agreed quality and specifications at done minimum cost to GSECL.
5	To ensure that no improper demand is made by employees or by anyone on our behalf	To abide by the general discipline to be maintained in our dealings.
6	To give maximum possible assistance to all the Vendors / Suppliers / Service Providers and others to enable them to complete the contract / job successfully in time.	To be true and honest in furnishing information.
7	To provid3 all in formations to Suppliers / contractors relating to contract / job which facilitate him to complete the contract / job successfully in time.	Not to divulge any information, business details available during the course of business relationship to other without the written consent of GSECL.
8	To ensure minimum hurdles to Vendors / Suppliers / contractors in completion of agreement / contract / work order.	Not to enter in to carter / syndicate / understanding whether formal / non-formal so as to influence the price.

\_\_\_\_\_  
Seal & Signature  
(GSECL's Authorized Signatory)

\_\_\_\_\_  
Seal & Signature  
(The Bidder's Authorized Signatory)

Name:

Name:



**GUJARAT STATE ELECTRICITY CORPORATION LIMITED**

**THERMAL POWER STATION, UKAI**

ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 CERTIFIED

**Ukai Dam, Tal - Fort Songadh, Dist - Tapi : Gujarat : INDIA-394680**

Phone- (02624) 233315(S), 233244(O)

Fax : 02624 - 233300 (O) 233315 (S)

e-mail : ukaitps@gebmil.com, ukaiceg@gebmil.com



# PRICE BID

WT NO. 2417

RFQ No. 24437

## TENDER FOR THE WORK

**As and when required Item rate contract for Maintenance works - routine / schedule / preventive / breakdown / overhauling of ' K. G. Khosla / Kirloskar' make Air compressors with associated auxiliaries of Unit no. 3, 4 & 5 of Ukai TPS.**

**Please submit price bid duly signed & stamp (without stating above/below rates) along with Technical Bid.**

GUJARAT STATE ELECTRICITY CORPORATION LIMITED  
UKAI THERMAL POWER STATION

Tender No: WT - 2417

RFQ No. : 24437

**SCHEDULE-B**

**PRICE BID**

**Do not submit this Schedule -B in Hard copy**

**NAME OF WORK:** As and when required item rate contract for Maintenance works - routine / schedule / preventive / breakdown / overhauling of ' K. G. Khosla / Kirloskar' make Air compressors with associated auxiliaries of Unit no. 3, 4 & 5 of Ukai TPS.

**NAME OF PARTY:**

Sr. No	Description or work	Qty	UOM	Rate		Amount	
				Rs	Ps.	In	Rs.
1	Checking oil level & oil topping ( 18 nos compressors per day)	730	Job	157=	50	114975=	00
2	Cleaning of Suction air filter <b>[Weekly]</b>	1872	Number	112=	50	210600=	00
3	Cleaning of air compressor and surrounding area. <b>[Every 15 days]</b>	864	Job	106=	50	92016=	00
4	Cleaning of LP & HP cylinder water jackets <b>[Every 15 days ]</b>	864	Job	337=	00	291168=	00
5	Cleaning of oil strainer & oil filter element <b>[Every 15 days &amp; As and when reqd ]</b>	875	Job	95=	00	83125=	00
6	Backwash of cooling water system of LP / HP Cylinder, Inter / After cooler etc (For Unit # 5 compressors only). <b>[ Every 15 days &amp; As and when reqd ]</b>	350	Job	231=	50	81025=	00
7	Overhauling / Servicing of moisture drain traps <b>[ Every 30 days]</b>	1100	Number	Rs.135=	00	148500=	00
8	Servicing / replacement of LP Cylinder Suction & Discharge valves <b>[Every 45 days &amp; As and when reqd ]</b>	3950	Number	178=	00	703100=	00
9	Overhauling / replacement of HP Cylinder Suction & Discharge valves <b>[Every 45 days &amp; As and when reqd ]</b>	2000	Number	178=	00	356000=	00
10	Servicing / replacement of Air discharge NRV <b>[Every 45 days &amp; As and when reqd ]</b>	245	Number	178=	00	43610=	00
11	Replacement of oil from crankcase oil chamber <b>[Every 4 months and As &amp; When required]</b>	110	Job	73=	00	8030=	00
12	Cleaning of Inter cooler tube bunch, leak test & plugging of leaky tube/s / Attending of tube leakage by plugging. <b>[Every 4 months and As &amp; When required]</b>	135	Number	1310=	00	176850=	00

13	Cleaning of After cooler tube bunch, leak test & plugging of leaky tube/s / Attending of tube leakage by plugging. <b>[Every 4 months and As &amp; When required]</b>	135	Number	1138=00	153630=00
14	Replacement /refitting LP / HP cylinder oil scrapper / wiper ring, gland packing, three / six piece in gland box. <b>[As &amp; When required ]</b>	115	Job	303=00	34845=00
15	Replacement / refitting of LP / HP piston assembly after fitting of guide ring & piston ring and setting of clearances in the LP / HP cylinder. <b>[As &amp; When reqd ]</b>	80	Job	1194=00	95520=00
16	Replacements of air suction filter element / body. <b>[ As &amp; When required ]</b>	18	Number	168=00	3024=00
17	Cleaning of lub oil cooler / tube leakage checking & plugging / replacement.	36	Job	514=00	18504=00
18	Replacement of oil filter element / complete filter assembly <b>[ As &amp; When required ]</b>	110	Number	50=00	5500=00
19	Oil leakage attending from oil line / flange joint /oil filter / oil line replacement (Inside / outside of compressor body) etc. <b>[ As &amp; When required ]</b>	60	Job	625=00	37500=00
20	Oil leakage attending from crankcase top cover / flywheel side cover / LP-HP cylinder cross head guide. <b>[ As &amp; When required ]</b>	20	Job	1377=00	27540=00
21	Overhauling / servicing of oil pump	36	Number	415=00	14940=00
22	Replacement of damaged / broken " V" belts by new one // Correction / adjustment of flapped / twisted /slipped "V" belt/s // Belt removing, refitting , alignment & tightening for Electrical requirement <b>[ As &amp; When required ]</b>	100	Job	202=00	20200=00
23	Replacement of tube bunch of Inter / After cooler <b>[ As &amp; When required ]</b>	6	Number	996=00	5976=00
24	Cooling water leakage attending <b>[ As &amp; When required ]</b>	40	Job	168=00	6720=00
25	Air leakage attending from compressor accessories viz. Inter / After cooler body, air delivery lines, air drying unit, volume bottle, HP/ LP cylinder body etc. <b>[ As &amp; When required ]</b>	35	Job	560=00	19600=00
26	Air leakage attending from compressor parts viz. Suction / discharge valve packing, Loading-Unloading line joints, drain valves, air delivery pipe joints etc. <b>[ As &amp; When required ]</b>	200	Job	135=00	27000=00

27	Replacement of eroded / corroded / punctured Air / Water / Oil lines of Air compressors & Air dryers and associated equipments [ Pipe length considering up to 2 meter and pipe size 15mm to 150 mm dia]. [ <b>As &amp; When required</b> ]	30	Job	286=50	8595=00
28	Replacement / Overhauling of water valves, Air discharge isolating valve [ <b>As &amp; When required</b> ]	30	Number	267=00	8010=00
29	Replacement of moisture drain traps / drain valves[ <b>As and when reqd</b> ]	80	Number	135=00	10800=00
30	Complete Overhauling of Air compressor. [ <b>As per PM schedule</b> ]	36	Number	23680=00	852480=00
31	Overhauling and greasing of All two way and four way valves connected with Air drier set. [ <b>As &amp; When required</b> ]	12	Job	2716=00	32592=00
32	Replacement of Silica gel / Alumina of Air drying unit (Both Adsorber tank). [ <b>As per PM schedule</b> ]	3	Job	2285=00	6855=00
33	Hydro test of Air receiver tank.	10	Number	510=00	5100=00
<b>Total Estimated Amount Rs.</b>					<b>3703930.00</b>
<b>In words: Rupees Thirty Seven Lacs three thousand nine hundred thirty only</b>					

My offer is \_\_\_\_\_ % higher or \_\_\_\_\_ % lower (% age should be written in figure as well as in words.) than above stated estimated rates for the items of schedule - B.

**Note:**

- 01) Payment shall be made through monthly R.A. bills after recording & submit the certificate duly certified by LWO / IRO / DGM, that contractor has complied with the provision of all labour laws applicable time to time.
- 02) Payment will be made as per actual work done only.
- 03) The above quoted rates are exclusive of service Tax.
- 04) **The above quantities are for 24 months period. GSECL reserve right to extend the contract for further on completion of contractual period for a mutually agreed period at the same rate, terms & conditions of the contract without any further amendment.**

**SIGN OF CONTRACTOR  
WITH SEAL AND DATE**

**CHIEF ENGR. (GEN)  
GSECL: TPS: UKAI:**