

BROAD SCOPE OF WORKS

1.0 DEFINITION OF WORK: The interested Party shall provide 10 (Ten) sets of Electrical Submersible Pump Systems as per the equipment list given below with other associated equipment / tools on **rental basis** & perform Operation & Maintenance of the ESP systems for an initial period of 3(Three) years with provision for extension for a further period of 1 (One) year at the same rates, terms and conditions. The equipment provided by the Party will be utilized by OIL for crude oil along with associated well fluid production in 10 (ten) different wells. If OIL desires, the party shall have to provide additional sets of ESPs with complete associated equipment with same terms and conditions.

2.0 AREA OF OPERATION:

The area of operation as planned is in Assam.

The following information is for general guidelines to the Party:

- (a) Minimum width of the well site approach road: 3.66 m
- (b) Turning Radius of the roads: 15 m (Generally), 12 m (exceptionally)
- (c) Maximum allowable unit load inclusive of fare weight for Class AA loading: 45 T
- (d) Maximum overhead clearance: 4.25 m(14 feet).
- (e) Highest recorded wind velocity in Assam: 80km/hour (60 MPH).
- (f) Max. Recorded ambient temp: 40° Celcius
- (g) Min. recorded ambient temp: 8° Celcius.
- (h) Weather Pattern: Frequent rains from March to September and occasional during the remaining period.
- (i) Nature of top soil: Usually Clay/Alluvium/ Unconsolidated.
- (j) Source of water: Through shallow bore wells. In rare cases, where water cannot be drawn from bore wells, water is to be drawn from nearby rivers, pond or water body etc. nearer to the well site.
- (k) Average annual rainfall: 250 / 300 cm.(Rains for 7-8 months/year)
- (l) Humidity: Max. 98%

3.0 SCOPE OF WORK: The work is defined and described by, but not necessarily limited to, any or all of the following. The primary objective of the contract is to achieve designed crude oil production with the help of Electrical Submersible Pumps in 10 (Ten) number of wells in OIL's oilfields. The service to be carried out by the contractor under this contract is as follows:

- A. Selection of suitable candidate wells for ESP installation
- B. Design of surface and sub surface ESP equipment
- C. Supply of designed ESP equipments on rental basis
- D. Assignment of field service specialists to work with OIL's rig crew during installation/de-installation /re-siting etc.
- E. Installation & Commissioning of ESP
- F. Operation & Maintenance of ESPs
 - Operation
 - Scheduled maintenance
 - Breakdown Maintenance if any
 - Supply of requisite manpower
 - Security
- G. Spare Management
- H. Imparting Training to OIL's personnel

A. Selection of suitable candidate wells for ESP installation

OIL has planned to install 10 (Ten) nos. of ESPs in its Upper Assam oilfields. The capacity of the ESPs are divided into two categories as under –

- i) Low capacity ESPs : Rate 60 – 100 cum/day for category A well = Quantity 4 nos.
- ii) High capacity ESPs : Rate 100-150 cum/day for category B well = Quantity 6 nos.

The representative well data for both categories are furnished in the design data sheets IA & IB.

Representative Well data sheets contain basic information of well completions, reservoir data and fluid genetics etc. as necessary for selection of suitable wells for ESPs. The Party shall screen the given data for designing and sizing of suitable subsurface and other related surface equipment.

At the time of installation, the Party shall undertake analysis of the well data of specific well and design the well completion for ESP installation selecting pumps from any one of the stipulated categories as mentioned in above.

B. Designing of surface and sub surface ESP equipment

On the basis of well data supplied, the Party shall have to design surface and down hole ESP system equipment individually for all the wells. Designing of ESPs shall preferably be carried out with the help commonly used software like SubPUMP or equivalent. The design shall include down hole completion with

representative schematic showing all the components and size and connections. Relevant design data sheets, graphs, load calculations of electrical equipments etc shall be furnished along with the bid. Based on the design calculation the Party shall select suitable downhole equipment like pump, motor, gas separator and surface equipment like Variable Speed Drive (VSD), Junction Box, Generator etc. The Party shall make a list of the offered equipment mentioning Make, Model, Quantity, dimensions etc in tabular form and shall be furnished along with the bid. The following design consideration shall be taken into account:

1. The furnished well data are indicative and may change to certain degree from the time of measurement. Therefore appropriate allowances for the well parameters shall be added while designing the ESP system.
2. A Reservoir pressure depletion of 5 to 10% per year shall be assumed for all design calculations.
3. Designing of Pump setting depth shall be in such a way that the Fluid Over Pump (Pump submersion) be at its maximum to avoid failure of pump on account of dry run and to minimize down hole retrieval operations.

C. Supply of designed ESP equipments on rental basis

The Party shall provide 10 (ten) sets ESP system as a complete package of equipment on rental basis for a period of 3 years of operation and with a provision for extension for another 1 (one) year. The following major equipments as designed shall be included, but not be limited to, in the ESP system for each set:

i) Subsurface Equipment:

- 1) Submersible Electric Motor
- 2) Hydro protector
- 3) Gas Separator
- 4) Electric Submersible Pump
- 5) Pump Intake
- 6) Down hole Sensor
- 7) Electric Cable
- 8) Check Valve
- 9) Tubing Drain
- 10) Discharge Head
- 11) Any other item not covered but required

ii) **Surface Equipment:**

1. Well Head
2. Junction Box
3. Transformer
4. Variable Speed (Frequency) Drive (VSD/VFD)
5. Gas Engine driven Electric power Generator Set and with a back up unit
6. Harmonic Filter (if needed)
7. Illumination system
8. Mobile Bunk house for operational crew & security
9. Any other item not covered but required

iii) **Installation & Commissioning Tools**

The Party shall arrange for all the necessary installation & commissioning tools such as slips, elevator, cable Pulley, wrenches , all type of lubricants etc. specially required for ESP installation.

The necessary technical details & literatures of the offered units and accessories are to be submitted by the Party.

D. Assignment of field service specialists to work with OIL's rig crew

After receiving of the ESP equipment at Duliajan, Assam, OIL shall arrange for deployment of well servicing rig for installation of ESP's down hole equipment. At the time of running in of ESP down hole equipment, the Party shall depute field service specialists to instruct and assist the rig crew for proper installation of the same. Moreover the Party shall depute competent personnel to install and commission of the ESP system after completion of down hole pumps.

E. Installation & Commissioning of ESP

As a parallel operation to that of para D above, the Party shall arrange for deployment of commissioning engineers to complete the installation and functional testing of the surface equipment (like Gas Engine Driven Gen set , VSD etc) at the OIL's designated wells. The Party shall depute their commissioning engineer for which OIL will give 15-20 days advance notice. The commissioning engineer shall be fully responsible and shall take complete

control of the installation and commissioning activities of the ESP packages at the well site. The commissioning engineer deployed must be fluent in English or local language.

Once the installation of the down hole equipment is completed, the Party shall arrange for commissioning of the ESP system as a whole to the satisfaction of OIL. All tests shall be carried out in presence of OIL's Engineers and all test results shall be recorded in a proper manner and should be submitted to OIL.

Necessary fuel Gas (Natural Gas) required for running of the Gensets shall be supplied by OIL. The gas shall be supplied to a single point at the well site and the party shall arrange for extending the gas lines to their equipments.

During the installation and commissioning of Prime mover & Electric Controls following guideline are to be specifically adhered to:

- i) All works of installation shall be carried out in complete with latest BIS, IE rules, Indian Electricity Acts and National Electric codes.
- ii) If required, services of specialist Engineer(s) from the manufacturers of Motor and Control panel shall be made available by the Supplier for installation and commissioning of the equipment to the full satisfaction of OIL
- iii) All electrical works shall be done by persons having relevant & valid electrical licenses issued by State Licensing Board.
- iv) The partry shall be responsible for safe custody and proper storage of materials during installation and commissioning stage till handing over.
- v) Civil engineering works such as trench cutting, masonry jobs like grouting, leveling etc. shall be done by the Supplier as per instruction of OIL. Civil engineering jobs shall primarily include trench cutting and back filling (approx. 150 M per installation) for cable laying.
- vi) The Supplier shall obtain permit to work from Engineer-incharge / Installation manager before taking up the installation and commissioning job.
- vii) Complete earthing system, including materials, shall be supplied and installed by the Supplier as per instruction of OIL.
- viii) Check of Electricals: The Supplier shall carry out the following checks of electrical equipment –

- a. Conformity to the circuit diagram.
- b. Protection schemes
- c. Insulation checks
- d. Earth resistance test
- e. Tightness checks of circuits / control devices
- f. Any other test as recommended by the manufacturer

The commissioning of the ESP system deems to be completed once the well is brought into production with the help of ESP and to the satisfaction of OIL. After completion of the jobs, the commissioning engineer shall prepare a complete commissioning report and submit it to OIL.

F. Operation & Maintenance of ESPs

After successful commissioning of each ESP package the Supplier shall undertake full responsibility for Operation and Maintenance of the same for a period of 3 (three) years.

The scope of work under operation and maintenance of the ESPs includes all that are required for safe, trouble-free and uninterrupted operation of the supplied ESPs as per sound industry practices, for a period of 3 (three) years. The Supplier shall undertake operation and maintenance (O&M) of the ESPs forthwith after completion of the installation and commissioning of the ESPs and shall be responsible for arranging all resources including competent manpower as per requirements of Indian Mines Act, its bye-laws & other legislations in force; employee insurance & benefits and all resources / facilities for **continuous twenty four hour operations on shift basis**; public liability insurance, routine & scheduled maintenance including running repairs and provisioning of relevant spares and consumables in relation thereto, directly or through Annual Maintenance Contract (AMC) and upkeep of the well plinth including periodic repainting.

Scope of personnel supply -

- a) The Party shall provide competent personnel with requisite qualifications on round the clock basis. OIL shall have the right to decide for engagement of these personnel on the basis of verification of relevant documents of competency prior to engagement of any personnel.
- b) An overall in Charge shall have to be deputed to head the O & M personnel and shall carry out all the jobs in consultation with OIL's representative. He shall report to the office of the OIL's representative

daily and also as and when called for receiving instruction / resolving any issue on contractual obligation. The in-charge must be fluent in English language and other personnel must have working knowledge of English language.

- c) The party is at liberty to replace their personnel during due off / leave with suitable competent personnel. But prior approval from OIL is necessary for replacing of the personnel.
- d) The Party shall ensure that all the personnel shall have a full medical examination in accordance with accepted medical standard of OIL prior to engagement and the medical report from a qualified doctor must be submitted to OIL.
- e) OIL withholds the right to disqualify any personnel in case of indiscipline, unfit due to medical reason, incompetence, alcoholism etc.

Scope of operational and maintenance jobs: The Party shall carry out the following operations:

- a) Transportation of their men and materials to the respective installations is Party's responsibility. The Party must have sufficient transportation facilities for transfer of crew, materials etc. to the work locations.
- b) Operation of all surface and downhole equipment of OIL's Electric Submersible Pumping units round the clock in its oilfields and record all operating parameters in respect of equipment in the Log Sheets which are to be approved by OIL. This includes various hourly parameters of ESP units which are available at the monitor of Electrical control panel.
- c) **Day to day routine maintenance** - The Supplier shall carry out day to day routine maintenance including provision of spares and consumables at their cost and it will be part of O&M. Duration of routine maintenance shall be planned and fixed mutually.
- d) **Scheduled maintenance** - The Supplier shall design and carryout well planned preventive maintenance of the ESP units and it is expected that there will not be any breakdown of the ESPs units during the O&M period. Sufficient spares shall be kept in hand by the Party prior to taking up maintenance job.
- e) **Breakdown maintenance** - In case of any breakdown of the ESP units the Supplier shall carryout breakdown maintenance at the earliest possible time. Sufficient spares shall be kept in hand by the Party prior to taking up the maintenance job.
- f) **Down hole Retrieval & Servicing:** IT is envisaged that the installed ESP systems shall run for at least 2 years time without any requirement for down hole retrieval. After completion of 2 years and if the maintenance demands the retrieval of down hole equipment from the well, OIL will provide requisite work-over rig service. If any other materials, services or assistance are to be provided by OIL for maintenance of the ESPs in the

wells the same may be specifically mentioned in the bid.

- g) During the tenure of the contract, if OIL intends to shift ESP system from a particular location to another location due to uneconomical operation, the well fails to deliver desired level of production, reservoir and production related reasons or any other logistics or environmental problem, OIL shall notify the Party to terminate the operation for that particular well and direct to reinstallation of the ESPs to another well. The bidder shall retrieve the down hole equipment from the well with the help of Workover rig provided by OIL. The party shall arrange for transferring all the surface and subsurface equipment to another locations as designated by OIL.
- h) To maintain general illumination of the installations.
- i) **Documentation:** The contractor shall submit Preventive Maintenance Schedule along with the bid. Recording of various operational parameters shall be done in Log sheets and shall be submitted to OIL on daily basis.
- j) The contractor shall adhere to the Safe Operating Procedure furnished to the contractor for running of the units.
- k) **ASSOCIATION OF COMPANY'S PERSONNEL:**
 - i. OIL may depute one or more than one representative (s) / engineer (s) to act on its behalf for overall co-ordination and operational management at location. OIL's representative will be vested with the authority to order any changes in the scope of work to the extent so authorized and notified by the Company in writing. He shall liaise with the Contractor and monitor progress to ensure timely completion of the jobs. He shall also have the authority to oversee the execution of jobs by the Contractor and to ensure compliance of provisions of the contract.
 - ii. OIL's representatives shall have free access to all the equipment of the Contractor during operations as well as idle time for the purpose of observing / inspecting the operations performed by the Contractor in order to judge whether, in Company's opinion, the Contractor is complying with the provisions of the contract.
 - iii. Joint inspection of the well sites with OIL representative and submit detailed report of the site condition prior to taking up the job.

- l) To Maintain cleanliness and up-keepment of the installations.
- m) The Party's personnel shall undertake the operation & maintenance of all the surface equipment including Gas Engine Driven Gensets, VSD etc.
- n) All the consumables like Lub oil, Transformer oil and any other consumables shall be arranged by the Party for operation & maintenance of the ESP systems.
- o) **Operating time and Unit maintenance time**- It is envisaged that the ESP units will operate for 365 days in a year on 24 hours per day basis. There may be planned stoppage of the pump for periodic inspection, maintenance or any other scheduled jobs. Duration of such interruption shall be worked out mutually at the time of actual execution of the job based on technical justifications.
- p) **Security** – The Company shall hand over the well sites secured with suitable fence where ESPs will be installed. But the security of personnel working in the respective installations shall be the Party's responsibility. Also, the party shall be required to arrange for the requisite security through State Agencies for ensuring safe movement of their experts to the site. No separate security personnel will be deployed by OIL.

G. Spare management

Provision of managing Spares for the ESPs is the Party's responsibility. The Party shall keep sufficient stock of spares in hand so that the breakdown of any equipment can be attended and rectified in a quickest mode. If possible, some of the critical equipment shall be kept as back up for urgent replacement of the faulty unit.

H. Imparting Training to OIL's personnel

The Party shall imparts training to at least 12 OIL's personnel at Company's headquarters, Duliajan free of cost on Electrical Submersible Pump system as mentioned below:

- a) Data analysis and candidate selection
- b) Pump design & selection of equipment

- c) Installation & Commissioning of downhole and surface equipment
- d) Safe Operation & Maintenance of ESPs
- e) Monitoring of ESP system
- f) Trouble shooting

The training schedule will be divided into two modules:

- a) Class room training on all theoretical aspects for a period of one week
- b) On the job training during actual job operations.

- 4.0 **Sub-contracting** - The Supplier may sub-contract the O&M of ESPs with OIL's prior written consent. But the primary responsibility for the O&M service shall rest with the Supplier entirely.
- 5.0 **Safe operating practices** - The Supplier before taking up O&M of the plant shall develop a Standard Operating Procedure (SOP) for operation and maintenance, schedule of routine and periodic maintenance of ESPs as per sound industry practices. Such SOP shall be duly approved by OIL and be strictly adhered to by the Supplier for operation and maintenance of the ESPs. The deputed personnel shall take all safety precautions during the works as per the prevailing statutory guidelines. However, should there be any accident caused to Supplier's personnel due to their negligence to safety rules, the Supplier shall be fully responsible for such accident.
- 6.0 **Safety Regulations** - The operation and maintenance of the ESPs shall be carried out strictly in accordance with provisions stipulated in Indian Mines act, Oil Mines Regulations, Indian Electricity Rules, OISD norms etc. In absence of a stipulated provision, sound industry practices shall guide the service of the contract.
- 7.0 The Party shall be solely responsible throughout the period of the O&M Contract for providing all requirements of their personnel, and of their Sub-contractors, if any, including but not limited to their insurance, housing, medical services, messing, transportation (both air and land transportation), vacation, salaries and all amenities, termination payment and taxes, if any, payable at no charge to OIL.

- 8.0 Manpower used for operation and maintenance of the plant shall have sound health, adequate qualification and experience as well as competency as stipulated vide Indian Mines Act, Oil Mines Regulations & other byelaws, regulations and norms in for. In absence of a stipulated provision, sound industry practices shall guide the operation and maintenance work.
- 9.0 The Supplier shall arrange for any special passes required by workers to enter the site.
- 10.0 The O & M contractor will be responsible for providing Personnel Protective Equipment (PPE) to all its employees as required under OMR 1984 for working in oilfields.

11.0 TRANSPORTATION SERVICES

Transportation of Party's personnel & their material from camp site to well site and between work sites shall be the responsibility of the Party. All vehicles deployed for this purpose should be in prime condition.

12.0 HEALTH, SAFETY & ENVIRONMENT (HS&E) POLICY:

The Party must have an own well defined HS&E policy to realize the highest achievable safety standards of work safety and health and protecting the environment. The policy shall be adaptable to complying all local, state and industry regulations & standards relating to Health, Safety and Environment.

OIL has also an HS&E policy in place covering different applicable industry standards and regulations. Moreover the policy is guided by the statutory and Government directives.

The party shall make a comprehensive HSE policy to be known as Bridging Document to accommodate all the safety requirements of OIL and the party in consultation with OIL for ESP's operation & Maintenance

- i) **Safety:** The Party shall observe such safety regulations in accordance with acceptable oilfield practice and applicable Indian Laws. The Party shall take all measures reasonably necessary to provide safe working conditions and shall exercise due care and caution in preventing fire, explosion. Party shall

- conduct such safety drills, Tool box meetings, etc. as may be required by company at prescribed intervals.
- ii) The Party shall provide all necessary fire fighting and safety equipment as per laid down practice as specified under OISD - STD - 189 and OMR.
 - iii) Fire protection at ESP installations shall be the responsibility of the Party. Necessary action shall be taken and prior arrangements to be made for providing competent persons trained in the field of fire fighting at the well site.
 - iv) Documentation, record keeping of all safety practices should be conducted as per international/Indian applicable laws, act, regulations etc, as per standard Oilfield practice and these records should be made available for inspection at any point of time. The H.S.E (Hygiene Safety and Environment) policy as well as emergency procedure manual should be kept at site. Compliance of these shall be the sole responsibility of the Party.
 - v) **First Aid Kit**: An adequate and approved first aid kit shall be provided at work site with all medicines as recommended by John Ambulance.
 - vii) **CAMP AND OTHER ESTABLISHMENT**: Suitable camp facilities for Party's personnel including catering services shall be Party's responsibility.
 - viii) **COMMUNICATION SYSTEM**: Suitable communication system like WLL/ Cell phone is to be provided by the Party for effective communication from the wells as well as from the base camp.

SCHEDULE OF RATES

1. MOBILIZATION CHARGES:

- a) Mobilization charges for Equipment shall be payable one time on lump sum basis. Mobilization charge is inclusive of all personnel, tools, equipment, spares, consumables, accessories.
- b) Mobilization charges will be payable only when all equipment / tools (free of all defects / encumbrances) and operating personnel are positioned at base camp and ready to undertake / commence the work under this contract.
- c) Mobilization charges cover all local and foreign cost to be incurred by the Bidder to mobilize the equipment to the appointed site and include all local and foreign taxes, port fees, inland transport etc., but excluding customs duty, which will be to the Company's account, if applicable on the items.
- d) OIL will provide all necessary documents as required for Custom Clearance only on receipt of request from the Contractor and all such request must be made by the Contractor well in advance so that the Company can make necessary arrangement for providing the documents in time without causing any delay for the Customs / Port Clearance.
- e) Mobilization charges will be payable after the complete equipment of Electric Submersible Pumps are properly positioned at the first location and the well is ready for installation and the commencement date is certified by the Company.

2. DEMOBILISATION CHARGES:

- a) The demobilization charges shall be payable one time on lump sum basis which include all charges towards demobilization of all contractor's equipment/tools and crew for Electric Submersible Pump systems from the site to contractor's base upon completion of the assignment of works under this contract is concluded to the satisfaction of Company.
- b) OIL shall give 10 (ten) days notice to contractor to commence demobilization.
- c) Demobilization shall be completed by Bidder within 60 days of expiry / termination of the contract. Contractor will ensure that demobilization is completed within the aforesaid period. No charge whatsoever will be payable from the date of notice to demobilize.
- d) All charges connected with demobilization including all fees and taxes in relation thereto and insurance & freight on export outside India will be to Contractor's account.

3. OPERATING DAY RATE CHARGE (PERSONNEL & EQUIPMENT):

- a) Operating day rate includes both equipment and personnel when the equipment is on operation.
- b) Operating Day Rate charge is applicable from the date of commencement of the installation of ESPs i.e. when the bidder's crew and equipment started the job of installation of the ESP in a well.
- c) Operating Day rate shall be payable for each ESP systems for the period when the equipment are in operation in the well with the designated operating crew. The charges will be considered on day rate basis for a day of 24 hours (From 06.00 Hrs to 6.00 Hrs. next day).
- d) In the event the Contractor's operating crew is not available for operation at any time, no payment against Operating Day Rate shall be made.
- e) Operating Day Rate shall not be payable if, in the duration of operation, Contractor's Tools/Equipment fails to perform.

4. STAND-BY DAY RATE CHARGE (PERSONNEL & EQUIPMENT):

- a) Stand-by Day rate includes both equipment and personnel when the equipment is not in operation but available for operation.
- b) The Stand-by Day rate will be payable to each Well Servicing equipment for the period when the equipment is not in operation. The charges will be considered on day rate basis for a day of 24 hours (From 06.00 Hrs to 6.00 Hrs. next day).
- c) The Stand-by Day rate will be payable when the ESP equipment(s) is in schedule maintenance job within the Company's allowable servicing period in a calendar month.
- d) However, if any equipment exceeds the above specified days in a calendar month for schedule maintenance job, zero rate will be applicable and penalty for that period will be applicable as per clause elsewhere in the tender. Bidder must take prior permission from the Company's Representative for availing schedule maintenance.

5. INTERIM DE-MOBILIZATION & MOBILIZATION CHARGE FOR (PERSONNEL & EQUIPMENT)

- a) During the tenure of the contract, if OIL intends to shift ESP system from a particular location to another location due to uneconomical operation, the well fails to deliver desired level of production, reservoir and production related reasons or any other logistics or environmental problem, OIL shall notify the Party to terminate the operation for that particular well and direct to reinstallation of the ESPs to another well. The bidder shall retrieve the down hole equipment from the well. The party shall arrange for transferring all the surface and subsurface equipment to another locations as designated by OIL.
- b) OIL shall specify the time period required for such transfer and shall be fixed based on the actual job involvement. The time period may differ case to case basis.
- c) The cost involved for such transfer of equipment shall be paid as INTERIM DEMOBILIZATION & MOBILIZATION CHARGE FOR (PERSONNEL & EQUIPMENT) for each such occasion. The amount shall be in Lumpsum basis and inclusive of all the cost elements involved in the process.
- d) During the interim Demobilization and Mobilization period, the bidder shall be paid additionally Standby Day Rate Charge (Personnel & Equipment).

6. FORCE MAJEURE DAY RATE

- a) In the event of either party being rendered unable by 'Force Majeure' to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such 'Force Majeure' will stand suspended as provided herein. The word 'Force Majeure' as employed herein shall mean acts of God, war, revolt, agitation, strikes, riot, fire, flood, sabotage, civil commotion, road barricade (but not due to interference of employment problem of the Bidder) and any other cause, whether of kind herein enumerated or otherwise which are not within the control of the party to the contract and which renders performance of the contract by the said party impossible.
- b) The 'Force Majeure' Rate shall be payable during the first 15 days period of Force Majeure'. No payment shall accrue to the Contractor beyond the first 15 days period unless mutually agreed upon.
- c) Payment towards force 'Force Majeure' rate shall be 50% of Stand-by Day rate charge. Payment shall be made considering 1(one) full 'Force Majeure' day = ½ (half) day Standby Day rate charge.

7. PENALTY & LIQUIDATED DAMAGE:

- a) In the event of the Bidder's default in timely mobilization for commencement of operations within the stipulated period, the Bidder shall be liable to pay liquidated damages at the rate of ½ % of the total contract value per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilization period till the date of commencement of Contract.
- b) In the event of the contractor's failure to strictly adhere in providing well servicing equipment, the penalty shall be levied at the following rates.

FAILURE	PENALTY
<p>a. Period of Shut down/break down of ESP equipment beyond stipulated routine and scheduled maintenance period in any well.</p> <p>b. Non functioning of ESP systems on account of non availability of consumables, sufficient manpower, spares etc.</p> <p>c. ESP system out of operation on account of malfunctioning of down hole equipment beyond allowable down hole retrieval period or any other reasons</p>	<p>a. Zero rate for the well for the period of shut down on pro-rata basis plus penalty of 15% of the operating day rate charge per well.</p> <p>b. Zero rate for the well for the period of shut down on pro-rata basis plus penalty of 15% of the operating day rate charge per well.</p> <p>c. Zero rate for the well for the period of shut down on pro-rata basis plus penalty of 15% of the operating day rate charge per well.</p>

8. **COST OF ESP EQUIPMENT**

The party shall furnish a list of all the ESP equipments used in individual wells indicating their individual prices. Moreover the bidder shall also indicate the average life and yearly depreciation rate of individual equipment in the offer for OIL's financial evaluation.

9. **MODALITY / TERMS AND CONDITIONS FOR USAGE/OPERATION OF THE ESP EQUIPMENT AFTER COMPLETION OF THE CONTRACT PERIOD**

The party may offer a modality /terms and conditions for usage of the equipment after completion of the contract period. OIL may consider the offer but the acceptance of the offered proposal will be on sole discretion of OIL.

PRICE BID FORMAT/PRICE SCHEDULE

Sl. No.	Particular/activity	Unit	Qty	Unit Rate	Total Amount
1	MOBILIZATION CHARGE	Lump sum	1	a	$A = a \times 1$
2	DE-MOBILIZATION CHARGE	Lump sum	1	b	$B = b \times 1$
3	OPERATING DAY RATE CHARGE PER WELL (PERSONNEL & EQUIPMENT)	Days	9150	c	$C = c \times 9150$
4	STAND-BY DAY RATE CHARGE PER WELL (PERSONNEL & EQUIPMENT)	Days	1800	d	$D = d \times 1800$
5	INTERIM DE-MOBILIZATION CHARGE & MOBILIZATION CHARGE FOR (PERSONNEL & EQUIPMENT)	Lump sum	10	e	$E = e \times 10$

Total Estimated Contract cost, $T = A + B + C + D + E$