

((TENDER NO. ISPRL/VSP/PR-08/17-18/MECH-ARC/ T5 dated 24.10.2017))



SECTION III

SPECIAL CONDITIONS OF CONTRACT (S.C.C)

COVER PAGE

**BIDDING DOCUMENT ON ANNUAL RATE CONTRACT FOR MECHANICAL
MAINTENANCE JOBS**

At

**Indian Strategic Petroleum Reserves Limited
Strategic Crude Oil Storage Facilities
Lova gardens, Behind HSL fabrication Yard
Post Box No.999, Gandhigram Post
VISAKHAPATNAM-530005**



INDEX

NAME OF WORK : ANNUAL RATE CONTRACT (ARC) FOR MECHANICAL MAINTENANCE JOBS AT INDIAN STRATEGIC PETROLEUM RESERVES LIMITED (ISPRL), VISAKHAPATNAM – 530 005.

TENDER DOC NO. : TENDER NO. ISPRL/VSP/PR-08/17-18/MECH-ARC/ T5 dated 24.10.2017

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SPECIAL CONDITIONS OF CONTRACT

1.0 GENERAL

- 1.1 Special Conditions of Contract (SCC) shall be read in conjunction with the General Conditions of Contract (GCC). Schedule of Rates, specifications of work, drawings and any other document forming part of this Contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the document into these separate sections and volumes, every part of each shall be deemed to be supplementary of every other part and shall be read with and into the Contract so far as it may be practicable to do so.
- 1.3 Where any portion of the GCC is repugnant to or at variance with any provisions of the Special Conditions of Contract, then unless a different intention appears, the provision(s) of the Special Conditions of Contract shall be deemed to override the provision(s) of GCC only to the extent that such repugnancies or variations in the Special Conditions of Contract are not possible of being reconciled with the provisions of GCC.
- 1.4 Wherever it is stated in this Bidding Document that such and such a supply is to be effected or such and such a work is to be carried out, it shall be understood that the same shall be effected / carried out by the Contractor at his own cost, unless a different intention is specifically and expressly stated herein or otherwise explicit from the context. Contract value (also referred to as Contract Price) shall be deemed to have included such cost.
- 1.5 In case of irreconcilable conflict between relevant Indian standards, GCC, Special Conditions of Contract, Specifications, Drawings and Schedule of Rates, the following shall prevail to the extent of such irreconcilable conflict, in order of precedence:
- i) Detailed Letter of Acceptance (along with Statement of Agreed Variations, if any) and its enclosures such as Schedule of Rates, Labour Rates, etc.
 - ii) Letter / Fax of Acceptance
 - iii) Special Conditions of Contract
 - iv) General Conditions of Contract
 - v) Scope of work / Job / Particular Specifications
 - vi) Drawings
 - vii) Technical/Material Specifications
 - viii) Indian Standards

2.0 DETAILS OF WORK

2.1 Scope of Work

The Scope of Work shall be as described in [Appendix-I to SCC](#).

2.2 Scope of Supply

The Scope of Supply shall be as described in [Appendix-I to SCC](#).



2.3 Time Schedule

- 2.3.1 The Work shall be executed strictly as per time schedule, i.e., as per the requirement as and when the need arises. The same will be informed by ISPRL and the time frame shall be decided based on mutually agreed basis. The period of completion given includes the time required for mobilization as well as testing, rectifications, if any, retesting, demobilization and completion in all respects to the satisfaction of ISPRL.
- 2.3.2 A joint programme /schedule of execution of work will be prepared by the Engineer-in-Charge and Contractor. This programme will take into account at the time of completion mentioned in 2.3.1 above.
- 2.3.3 Daily / Monthly / weekly execution programme will be drawn up by ISPRL as per the requirement if any. The Contractor shall scrupulously adhere to the Targets / Programme by deploying adequate personnel, Equipment, Tools and Tackles and also by timely supply of required materials coming within his scope of supply as per Contract.
- 2.3.4 Contractor shall give every day category-wise labour and equipment deployment report along with the progress of work done in the proforma prescribed by ISPRL.

2.4 Water, Power Supply and Land for contractors site office / Labour amenities.

Water and power shall be provided by ISPRL from the nearest available source for which the contractor has to make his own arrangements for using these resources. Contractors site office, Labour amenities will be the responsibility of the contractor.

2.5 Billing and Terms of Payment

The Contractor shall submit the Bills / invoice, in quadruplicate, for the work done once in a month. The Contractor shall submit all relevant documents, if specifically asked by ISPRL, for certification of invoice.

ISPRL shall release the payments **within 30 days** from the date of receipt of Bills, if found in order. No advance shall be paid.

2.6 On Account Payments

- a. Monthly Running Account Bills
- b. Payments will be made against Running Accounts Bill certified by ISPRL within 15 days from the date of receipt of the certified bill by ISPRL.
- c. Running Account bills and the Final Bill shall be submitted by the Contractor together with the duly signed measurement sheet / MIS Reports to ISPRL in quadruplicate for certification.



- d. All running account payments shall be regarded as on account payment (s) to be finally adjusted against the final bill payment.
- e. The final bill shall be submitted by the Contractor within one month of the date of completion of the work fully and completely in all respects.
- f. Payment of final bill shall be made within 30 days from the date of receipt of the certified bill by the Disbursement Section of the owner.
- g. Payment shall be made only through e-Payment mode through any of the designated banks to ensure that timely payments are processed. The agency shall necessarily fill requisite formats and complete all formalities for the same before submission of first bill. Due to non-fulfilment of e-Payment requirements, ISPRL shall not be responsible for any delay in the payments. Owner reserves the right to make payment in any alternate mode also.

2.7 Firm Price

The quoted price shall be FIRM and no escalation in price on any account shall be admissible to the Contractor till the work is completed in all respects. However, if there is any change in minimum wages during the contract period, the same will be considered for payment on the item no.1 and 5 of SOR.

2.8 Quality Assurance System

- 2.8.1 Owner's representative shall reserve the right to inspect / witness, review any or all stages of work at shop / site as deemed necessary for quality assurance.
- 2.8.2 In case CONTRACTOR fails to follow the instructions of ISPRL with respect to above clauses, next payment due to him shall not be released unless until he complies with the instructions to the full satisfaction of ISPRL.

2.9 Working Hours

Depending upon additional specific requirements and upon ISPRL advice, the works may have to be started earlier or beyond normal working hours and on holidays also for which no additional charges (OT) claim shall be entertained. Normal working hours will be 9.00 am to 5.30 pm with half an hour lunch break.

3.0 DEPOSITS

3.1 SECURITY DEPOSIT

This is with reference to GCC at point no.4 under head Deposits, for Security Deposit, the contractor shall within 15 (Ten) days of receipt of the notification of acceptance of the tender or letter of intent, shall remit the security deposit of amount equivalent to 1% of the Contract value to ISPRL. The security deposit shall be in the form of Bank Draft/Pay Order/Bank



Guarantee from a Scheduled Bank / Nationalized Bank valid upto Three (3) months after defect liability period and the same shall be released after Three months from the date of completion of defect liability period.

Bank Guarantee shall be provided as per the enclosed format. Contractor may note that payment towards running bill shall not be paid unless & until SECURITY DEPOSIT is paid to ISPRL.

Owner reserves the right to deduct any amount from the Security Deposit at the time of expiry of Contract / Termination of Contract.

3.2 RETENTION MONEY/PBG:

This is with reference to GCC at point no.4 under head Deposits, for Retention Money (R.M), 10% of the total value of the Running Account bill shall be deducted and the same shall be released after Defect liability period.

3.2.1 DEFECT LIABILITY PERIOD

The defect liability period will be One year from the date of completion/ any other liability period which will be mutually agreed before start of some specified jobs. Any defects related to construction found if any are to be attended with no addition cost by the contractor after receiving the information from ISPRL. If the problem not attended with the given time frame, the rectification job will be done by ISPRL and the Double the cost will be recovered from the vendor from the available Security deposit.

4.0 PENALTY CLAUSE

Owner shall reserve the right to impose cash penalty on the contractor and deduct such amount from his bills or Security Deposit in case Owner is put to any inconvenience due to non-performance or financial loss of any nature whatsoever, directly or indirectly by any of the contractor's personnel or by the contractor.

5.0 WORKS CONTRACT TAX

Every contractor who works for Owner should obtain an exemption certificate from the Commissioner of Sale Tax (works contract) otherwise Owner shall deduct the amount of TDS in accordance with the provisions of this Act. If at any stage the contractor's establishment gets an exemption certificate, he shall apply for refund to the Sales Tax Commissioner. Owner will furnish only a TDS certificate for the amount deducted and deposited with the Commissioner.

6.0 INCOME TAX

Income tax deduction shall be made from the gross amount billed as per the rules and regulations in force in accordance with income tax act prevailing from time to time.

7.0 CONTRACTOR'S OBLIGATIONS/ RESPONSIBILITIES

7.1 OBLIGATIONS:



The Contractor shall also be bound to discharge obligations as provided under various statutory enactments including the Employees Provident Fund Act, 1952, Employees Pension Scheme, 1995, ESI Act 1948, Contract Labour (Regulation and abolition) Act, 1970, Minimum Wages Act 1948, Payment of Wages Act 1936, Payment of Bonus Act, 1965, Payment of Gratuity Act, 1972, Workmen's compensation Act 1923, Works Contract Act 1999 and other relevant Acts, Rules and Regulations in force and as amended from time to time and are in force in the State where the subject work under this Contract are executed.

7.2 RESPONSIBILITIES:

7.2.1 It shall be the responsibility of the CONTRACTOR to obtain the approval for any revision and/or modifications decided by the CONTRACTOR from the OWNER/ Engineer-in-Charge before implementation. Also such revisions and/ or modifications if accepted/ approved by the OWNER/ Engineer-in-Charge shall be carried out at no extra cost to the OWNER.

7.2.2 All expenses towards mobilization at site and demobilization including bringing in equipment, work force, materials, dismantling the equipment, clearing the site etc. shall be deemed to be included in the prices quoted and no separate payments on account of such expenses shall be entertained.

7.2.3 It shall be responsibility of the CONTRACTOR to provide, operate and maintain all necessary machinery service related equipment, tools and safety gadgets, and lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all the jobs as per time schedules without any extra cost to the OWNER.

7.2.4 The CONTRACTOR shall be responsible for procurement and supply in sequence and at the appropriate time of all equipment / materials and consumables and his rates for execution of work will include of supply of all these items.

8.0 PAYMENT OF TAXES, DUTIES, CESS & OTHER LEVIES

The contractor shall be fully and exclusively responsible for the payment (and liable for all consequences in the event of default) of any and all taxes, duties, octroi, & other levies including service tax now or hereafter imposed, increased or modified from time to time in respect of the above job. The change in service tax if any after the award of contract shall be to ISPRL a/c.

9.0 INSURANCE POLICIES

The Contractor shall at his own cost and initiative take out and maintain at all times until the close out of the Contract, insurance policies as mentioned in General Conditions of Contract and also in respect of workmen engaged by him for providing services under this Contract, in order to keep himself as well OWNER fully indemnified from and against all claims whatsoever including but not limited to those arising out of the provisions contained in Workmen's Compensation Act, 1923. Should the Contractor fail to take out and/or keep afoot insurance as provided for in the foregoing paragraph, OWNER shall be entitled (but without any obligation to do so) to take out and/or keep afoot such insurance at the cost and expense of the Contractor and without prejudice to any other rights or remedies of OWNER in this behalf,



to deduct the sum(s) incurred thereof from any amounts due to the Contractor.

10.0 GOVERNING LAWS & JURISDICTION

The terms and provisions of this Contract shall be governed and interpreted in accordance with the laws of India in force and is subjected to and referred to the court of law located at New Delhi which shall have exclusive jurisdiction.

11.0 CONTRACT AGREEMENT

The successful Bidder shall be required to execute a Contract Agreement with ISPRL as per proforma attached in the Bidding. Document on the non-judicial stamp paper of appropriate value (**Minimum Rs. 100/-**) to be purchased from Delhi/Visakhapatnam. The cost of stamp paper shall be borne by successful Bidder.

12.0 ROUNDING OFF

All payments to and recoveries from the Contractor shall be rounded off to the nearest rupee. Wherever the amount to be paid / recovered consists of a fraction of a rupee (paise), the amount shall be rounded off to the next higher rupee if the fraction consists of 50 (fifty) paise or more and if the fraction of a rupee is less than 50 (fifty) paise, the same shall be ignored.

13.0 HEALTH, SAFETY AND ENVIRONMENT (HSE) MANAGEMENT

- 13.1 The Contractor shall adhere to the Health, Safety (HSE) management system as per our HSE management at our site.
- 13.2 The CONTRACTOR shall establish document and maintain an effective Health, Safety and Environment (HSE) management system.
- 13.3 In case CONTRACTOR fails to follow the instructions of Engineer-in-charge with respect to HSE, next payment due to him shall not be released till CONTRACTOR complies with the HSE systems to the full satisfaction of Engineer-in-charge.

14.0 TESTS AND INSPECTION

The work is subject to inspection at all times by the Engineer-in-Charge. The Contractor shall carry out all instructions given during inspection and shall ensure that the work is being carried out according to the specifications of this Bidding Document and the relevant codes of practice.

The Contractor shall provide for purposes of inspection access ladders, lighting equipment for testing, necessary instruments etc., as applicable, at his own cost.

15.0 COMPLETION DOCUMENTS

The following documents shall also be submitted by the Contractor in triplicate as a part of completion documents:

- a) Material test reports for all supply items in the Scope of Contractor.



b) Other documents as mentioned in Technical Specification.

c) As built drawings, if asked by Engineer- in-Charge

16.0 STATUTORY REQUIREMENTS

The approval from any authority required as per statutory rules and regulations of Central/State Government shall be the contractor's responsibility unless otherwise specified in the Bidding Document. The application on behalf of the Owner for submission to relevant authorities along with copies of required certificates complete in all respects shall be prepared and submitted by the contractor well ahead of time so that the actual construction/commissioning of the work is not delayed for want of the approval /inspection by concerned authorities. The inspection of the works by the authorities shall be arranged by the contractor and necessary coordination and liaison work in this respect shall be the responsibility of the Contractor.

Bidder has to submit the following documents:-

1. Firm registration, PF and ESI registration certificates, Labour, service tax, PAN, GST details.
2. Last three years IT returns and last three years and Service tax returns
3. Turn over certificate from the auditor
4. Bidder should submit the last One year challans and ECR copies of PF and ESI .
5. If the GST number is not available at the time of participation of this tender, an undertaking to be given mentioning that the GST will be submitted with in one month from the date of award of contract.

17.0 SITE ORGANISATION

The Contractor shall submit the details of organization proposed by him at site of work for the implementation of the works under the Contract, together with bio data of the key personnel. The Contractor shall however without prejudice to his overall responsibility to execute and complete the works as per specifications and time schedule progressively deploy adequate qualified and experienced personnel and augment the same as decided by Engineer-in-Charge depending on the exigencies of work to suit the work schedule without any additional cost to Owner.

18.0 SITE CLEANING

The CONTRACTOR shall clean and keep clean the work site from time to time to the satisfaction of the Engineer- in-Charge for easy access to work site and to ensure safe passage, movement and working. The Contractor shall also clean the work site to the satisfaction of Engineer-in-Charge before handing over. No extra payment shall be paid on this account. The rates quoted in SOR are deemed to be inclusive of all the costs towards all the above activities as well.

19.0 ISPRL

Where ever ISPRL is stipulated, it shall be construed as ISPRL's authorized representative for this work.

20.0 ROYALTY

The quoted rates/price shall be inclusive of all royalties, if any, which the Contractor may have



to pay to the statutory bodies/Govt.

21.0 SCHEDULE OF RATES

The Schedule or Rates (SOR) shall be read in conjunction with Special Conditions of Contract, General Conditions of Contract, Technical Specifications, Drawings and any other Document forming a part of this Contract. The quantities shown against the various items are only approximate and subject to any variations as per the stipulation made in General Conditions of Contract.

The Owner reserves the right to interpolate or extrapolate the rates for any new item of work not covered in Schedule of Rates from the similar items already available in Schedule of Rates. All the works item wise, shall be measured upon completion and paid for the contracted rates. In case any activity though specifically not covered in Schedule of Rates, description but the same is covered under Scope of Work / Specification / Drawings etc., no extra claim on this account shall be entertained, since SOR is to be read in conjunction with other documents forming part of the Contract. All items of work in the Schedule of Rates shall be carried out as per the Specification, drawings and instructions of the Engineer-in-Charge and the Rates are inclusive of all materials, consumables, labour, supervision, tools and tackles, as well as preparatory, incidental, intermediate / auxiliary / ancillary or enabling works.



APPENDIX-I

A) SCOPE OF WORK

The scope of work covered in this tender shall be as specified below.

It is, however, explicitly understood and confirmed by the Contractor that the scope as described in the Bidding Document is not limiting, in so far as the responsibilities of the Contractor shall include, inter-alia, carrying out any and all works and providing any and all facilities those are required in completing the work in all respects and satisfying all performance and guarantee requirements stated or implied from the contents of the Bidding Document.

The quantities shown in the SOR in Section IV of price bid are tentative.

A.1 The details on scope of work are as under:

1. All necessary tools, tackles and rigging tackles (such as lifting tools, Eye bolts, slings, D-shackles, ropes etc) under agency scope.
2. As per the safety concern all certified PPE and tools and tackles should supplied by agency.
3. The necessary Consumables and spares will be arranged by ISPRL.
4. Any special tools required for concern job, the agency to be taken care for those special tools.
5. Alignment tools (such as clamps, dial gauges, Vernier calipers, micro meter) under agency scope.
6. As per job requirement Hydra, Crane, additional manpower to be supplied in proper time is under agency scope. Payments will be made by ISPRL on actual bill basis for those items which are not covered in the rate contract for which the contractor has to take prior written permission before proceeding for such jobs.
7. If any material require for carrying repair/maintenance job, if that material is not available with ISPRL, then agency should supply the material on payable basis for which a prior approval has to be obtained in written from ISPRL.
8. If any material/equipment found damage due to poor workmanship, then agency is responsible for such damage and respective cost will be recovered from the agency.
9. If any deviation in safety or wrong approach in job performance, then agency is responsible for respective man power and equipment. The decision of the ISPRL Mechanical dept. Incharge shall be final in deciding whether the defect is due to poor workmanship or not.
10. Agency shall deploy a dedicated supervisor for all necessary co-ordination with their crew members, Operations, other Maintenance section, Job in charge and safety dept. to following work permit systems and smooth completion of assigned jobs.
11. In all jobs and payments final decision on certification on completion of job will to be taken by the ISPRL job in charge only.
12. For Emergency jobs with duration of 24 hours, agency should supply the require manpower to continue works un-interrupted and need to arrange/mobilize necessary equipment and manpower. The actual Supplied equipment and manpower rates will be paid by ISPRL on designated skill basis as per the contract.
13. Non sparking tools to be used for concern jobs as advised by the job engineer.

A.2 Rotary Equipment Overhauling Job Scope:

1. Skilled and Experienced technicians are required for the completion of assigned jobs.



2. Agency should provide standard job procedures to each job and work permit system to be followed before starting the work.
3. Most of Rotary jobs are critical in nature, hence agency is required to discuss about expected time for completion of job in concurrence with ISPRL job engineer, and ensure to complete it within the committed time frame.
4. In Emergency Job to be carried out on round the clock basis up to commissioning of equipment.
5. All Required rotary Spare parts, lubricants, consumables under ISPRL scope. However, if any of them are not available at ISPRL stores, then Agency need to procure spares after obtaining the necessary approvals from ISPRL, payment will be done on actual basis by ISPRL at later stage on production of Proofs.
6. If any machining works arises for completion of job, it should be taken up by Agency, Payment will be done on actual basis by ISPRL at later stage on production of Proofs.
7. Proper and Certified lifting tools required to use at site while carrying the jobs.
8. After Job completion overhauling/ history sheet/service report need to be generated and produced to ISPRL job engineer.
9. Agency should provide equipment performance guaranty certificate based on nature of the job.
10. If any major repairs or damages to the equipment occurs, then agency is liability to repair or replace the same with prior intimation to job engineer/ manager.
11. Agency having privilege to discuss with concern ISPRL officials to change the decision for the benefit of the ISPRL.

B) DETAILS OF WORK

B.1 Carrying the Preventive Maintenance as directed by officer-in-charge, ISPRL :

There are various mechanical equipment and machinery are installed for which there is a need to carry the necessary Preventive Maintenance. The list of jobs with scope is specified in the Annexure - A.

B.2 Carrying the Break-down Maintenance as directed by officer-in-charge, ISPRL:

Any break-down maintenance occurred to any of the equipment, there is a need to attend the same. The information regarding this job will be intimated by ISPRL. The list of jobs with scope is specified in the Annexure - A.

B.3 Carrying the Predictive Maintenance as directed by officer-in-charge, ISPRL:

There are various mechanical equipment and machinery are installed for which there is a need to carry the necessary Predictive Maintenance. The list of jobs with scope is specified in the Annexure - A.

B.4 Arranging the Maintenance manpower on need basis as directed by officer-in-charge, ISPRL:

Some times there may be a need to arrange Certified Fabricators, Crew Members and Helpers to attend the jobs as per the ISPRL requirement. The specifications on this head are given in the Annexure - A.

B.5 Arranging the Equipment on need basis as directed by officer-in-charge, ISPRL:

There may be a need arises for arranging the special equipment line JCB, Hydra, Tractor, welding machine or a different capacity of de-watering pumps etc., This qualified bidder has to arrange these equipment on rental basis for which the details on scope of job given under the Annexure - A.



B.6 Miscellaneous Civil Works on need basis as directed by officer-in-charge, ISPRL:

To carry various civil jobs like excavation, filling, brick work, RCC flooring etc are to be carried as per the requirement. This qualified bidder has to carry this nature of jobs as per the requirements of ISPRL. The specifications under this head with scope are given under Annexure - A.

ANNEXURE – A: Showing the Nature and Scope of Work



Scope of work description

Sr.No	Work	Scope of work description
1	Earth Strip Laying	Laying of earth strip up to 50*6 mm size including welding , cutting, bending, bolting etc., complete all respect, as per the requirement and instructions of officer in charge of ISPRL, material will be supplied by ISPRL separately, The contractor has to submit the material consumption statement, after job completion surplus material to be hand over to ISPRL, scrap material to be shifted to Scrap yard.
2	Cleaning of Strainer up to 6"	The job includes draining the strainers on the suction line of the pumps, replacing the gaskets if necessary and cleaning them once every three months up to 6" size and record to be maintain. The drained product has to be collected in barrels and disposed as advised by the job engineer. The gaskets, nuts, bolts etc. will be supplied by ISPRL.
3	Cleaning of Strainer 8" to 12"	The job includes draining the strainers on the suction line of the pumps, replacing the gaskets if necessary and cleaning them once every three months of 8" to 12" size and stencilling the date of cleaning on the strainers. The drained product has to be collected in barrels and disposed as advised by the Job engineer. The gaskets, nuts, bolts etc. will be supplied by ISPRL.
4	Cleaning of Strainer 13"- 24"	The job includes draining the strainers on the suction line of the pumps, replacing the gaskets if necessary and cleaning them once every three months of 13" to 24" size and stencilling the date of cleaning on the strainers. The drained product has to be collected in barrels and disposed as advised by the Job engineer. The gaskets, nuts, bolts etc. will be supplied by ISPRL.
5	Dismantling of Pipe line / Structure	Dismantling of damaged & unused pipelines/ structures and transporting to scrap yard using cutting/cold cutting etc.
6	Structural works	The scope of job includes cutting/welding of structure, edge preparation, fabrication of clamps, sheets, gratings, ladders, dummies etc. as advised by ISPRL job engineer. The job also includes mobilizing the welding machine. The rate is per kg of work done and includes consumable items like welding rods, oxygen, LPG etc. payment shall be done based on the total weight of the structure being erected. Electricity supply shall be given by ISPRL.
7	Emergency Shower maintenance	The job includes replacement of valves, maintenance of chains, valve handles on the emergency showers and tightening, fixing of portable water line on the shower in case of leak using Teflon tape. The valve, chain etc. will be provided by ISPRL. Agency should ensure good working condition without leaks.
8	Gasket replacement up to 12"	The job includes dismantling of the flange coupling, cutting and replacing the gasket of adequate size and fixing back the complete in all respects and disposing the collected product as advised by the officer-in-charge. Gaskets will be supplied by ISPRL. Required special tools like wedge spreads is under agency scope.
9	Gasket replacement 12" to 16"	As per item no 08.
10	Gasket replacement 18" to 24"	As per item no 08.
11	Pump Alignment (up to 25 HP)	The job includes alignment of pump-motor shaft with the provided coupling by dial gauge method and noting the readings before and after the alignment. The alignment should be as per the OEM/OISD standards. Shims have to be provided by the contractor.
12	Pump Alignment (25 HP- 100 HP)	As per ITEM no 11.
13	Mechanical seal replacement up to 50 HP	The job includes repair & replacement of the mechanical seal of the pump by draining the product, dismantling the pump, cleaning the meshing gears, replacing the mechanical seal as per the instructions of the OEM and boxing up the same. After the boxing up, the area has to be cleaned and the product collected has to be disposed as advised by the ISPRL job engineer.
14	Mechanical seal replacement 50 to 100 HP	Same as above for pumps for 50 to 100 HP.
15	Gland packing 1" to 6"	The job includes the replacement of gland packing on the water line valves. The valve size will be 1" to 6". The material will be provided by ISPRL. One pump shall be taken as one quantity
16	Gland packing 8" to 12"	The job includes the replacement of gland packing on the fire water line valves. The valve size will be 8" to 12". The material will be provided by ISPRL. One pump shall be taken as one quantity.
17	Bearing change in board (1 - 24 HP)	The job includes replacement of inboard bearing of the motor/pump having rating between 1-25HP. Bearing will be provided by ISPRL.
18	Bearing change in board (25-100 HP)	The job includes replacement of inboard bearing of the motor/pump having rating between 25 -100 HP. Bearing will be provided by ISPRL.



19	Bearing change out board (1 - 24 HP)	The job includes replacement of outboard bearing of the motor/pump having rating between 1-25HP. Bearing will be provided by ISPRL.
20	Bearing change out board (25-100 HP)	The job includes replacement of outboard bearing of the motor/pump having rating between 25 -100 HP. Bearing will be provided by ISPRL.
21	Roofing with galvalume sheets	Supplying, transporting & stacking , fixing in position "Galvalume clip on" OR equivalent sheeting of self crimping type as follow with accessories such as Fasteners & Foam filler detailed as under all complete as per instructions of MMCI/ISPRL Engineer-in-Charge FASTNERS: -Mechanically galvanised self drilling high grip screws 12-14 X55 with integral washers. EPDM seals and 10- 12X25 screws at side laps.(not measured for payment) Polyethylene foam filler cut to suit profile at all ends to ensure air tightness. FOAM FILLER: Polyethylene foam filler cut to suit profile at all ends to ensure air tightness. SHEETING:-a) Track deck KLIPPON AZ 150 SMP colour coated (in approved colour) or equivalent profile, suitable for purlin spacing 1.8 m c/c. b) 0.50 mm thick without coating with 0.55 mm total coat thickness. c) 550 MPA yield stress cold Rolled Steel ASTM A446 Grade E) d) Hot dip metallic coating conforming to AZ150 of AS 1397 with hot dip metallic coating of 55% Al and 45% Zn alloy having total coating mass of min 150 gms/m ² inclusive of both sides. 5% of area shall be replaced with translucent sheets. e) Measurement is installed area (net of overlap) f) All overlaps sealed with neutral cured silicon sealants.
22	MS gratings	Supply and fixing of require size gratings including material, fabrication and painting.
23	Flange joints SORF to blind F up to 12"	Providing SORF to Blind Flange joints of up to 12" from ISPRL supplied flanges including fixing and welding. Rate shall also include fixing 2 mm thick CAF oil permeate gasket , fixing all stud & nuts of approved make, size & dia. with washers etc., complete. The job also includes supply & fixing 10 SWG copper wires on stud & bolts (2 nos. wire on each flange joint) on either side for electrical continuity. The studs, nuts and gaskets will be provided by ISPRL. Two flanges shall constitute one flange joint.
24	Flange joints SORF to blind F 14" to 26"	as per job no 23.
25	Flange joints SORF to blind F 28" to 42"	As per ITEM no 23.



26	Flange joints SORF to SORF FL up to 12"	Providing SORF to SORF joints of sizes up to 12", job scope as per job no 23.
27	Flange joints SORF to SORF FL 14" to 26"	Providing SORF to SORF joints of sizes 14" to 26", job scope as per job no 23.
28	Flange joints SORF to SORF FL 28" to 42"	Providing SORF to SORF joints of sizes 28" to 42", job scope as per job no 23.
29	Fixing of valves 3" to 8"	Loading, transportation, handling, erection and fixing of the ISPRL supplied CS or CI Gate Valves/Butterfly valves/ Gear Operating Valve/Plug Valve /MOV /Non-Return Valve/Hammer Blind Valve/'T' Strainers of sizes 3" to 8" from owners store, including alignment, supplying & fixing of 2 mm thick CAF oil permeate gasket(of approved make & rating) conforming to IS 2712 on either side, supply & fixing all stud & bolts (conforming to ASTM A 193 B7 & A194 2H) of approved make & correct size & dia with washers etc., supply & fixing 2 nos.10 SWG copper wire(on each flange joint) on both sides of valve (connected to flange). Rate to include welding of ISPRL supplied flanges on both sides for fixing of valves etc. complete.
30	Fixing of valves 10" to 16"	As per job no 29.
31	Fixing of valves 18" to 24"	As per job no 29.
32	Servicing of valve, 2" – 8"	Removal of damaged valve 2" to 8" and put the boiler maker on both flange ends with proper gasket. Valve dismantling , cleaning, repairing and fixed back. Ensure leak test.
33	Servicing of valve, 10" – 16"	Removal of damaged valve 10" to 16" and put the boiler maker on both flange ends with proper gasket. Valve dismantling , cleaning, repairing and fixed back. Ensure leak test.
34	Servicing of valve,18" – 24"	Removal of damaged valve 18" to 24" and put the boiler maker on both flange ends with proper gasket. Valve dismantling , cleaning, repairing and fixed back. Ensure leak test. The necessary gaskets will be arranged by ISPRL.
35	Replacement of valve 3" to 6"	The job includes the replacement of valve by dismantling the old valve, removing the old gaskets, replacing the same with new valves and new gaskets, shifting the old valve to the warehouse and checking for leaks as per the directions of the Job in-charge. The necessary gaskets will be arranged by ISPRL.



36	Replacement of valve 8" to 12"	As per Item no 35
37	Replacement of valve 14" to 24"	As per Item no 35
38	Renting Hydra	Supply of & operation of Hydra of 8/12 ton capacity on rent basis, as and when advised by ISPRL.
39	Renting JCB	Supply and & operation of JCB for miscellaneous jobs on rent basis, as & when advised by ISPRL. Payment to be made on per hour basis.
40	Scaffolding	Scope of job includes shifting of the pipes, clamps etc. from the stores to the erection site, erecting the scaffolding of required size, dismantling the same after completion of work and shifting the materials back to the warehouse, as per instructions of ISPRL.
41	Renting Tractor	Supply & operation of tractor for shifting of materials on rent basis, as and when advised by ISPRL.
42	Overhauling of injection pump gear box up to 5 HP	Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix - I
43	Overhauling of injection pump gear box above 5 HP	Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix - I
44	overhauling of injection pump liquid end up to 5 HP	Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix - I
45	overhauling of injection pump liquid end above 5 HP	Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix - I
46	Overhauling of BPO pump up to 50 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 0 HP up to 50 HP (installed with mechanical seal) including Mechanical Seal & Bearings replacement



47	Overhauling of BPO pump from 50HP to 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 50 HP up to 100 HP, (installed with mechanical seal) including Mechanical Seal & Bearings replacement
48	Overhauling of BPO pump above 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 100 HP (installed with mechanical seal) including Mechanical Seal & Bearings replacement
49	Overhauling of BPO pump up to 50 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 0 HP up to 50 HP (installed with mechanical seal) including Mechanical seal replacement & without Bearings replacement,
50	Overhauling of BPO pump from 50HP to 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 50 HP up to 100 HP (installed with mechanical seal) including Mechanical seal replacement & without Bearings replacement
51	Overhauling of BPO pump , Range from 50HP to 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, (installed with mechanical seal) including Mechanical seal replacement & without Bearings replacement
52	Overhauling of BPO pump up to 50 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, (installed with Gland packing) including Bearings replacement
53	Overhauling of BPO pump from 50HP to 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 50 HP up to 100 HP, Range above 0 HP up to 50 HP (installed with Gland packing) including Bearings replacement
54	Overhauling of BPO pump above 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 100 HP (installed with Gland packing) including Bearings replacement
55	Overhauling of BPO pump up to 50 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 0 HP up to 50 HP, (installed with Gland packing) without Bearings replacement,
56	Overhauling of BPO pump from 50HP to 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 50 HP up to 100 HP, (installed with Gland packing) without Bearings replacement,
57	Overhauling of BPO pump above 100 HP	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 100 HP, (installed with Gland packing) without Bearings replacement



58	Balancing of Impeller/ Fan & Rotor balancing,	as per need basis balancing job carried out by agency at reputed workshop and report to be submit to ISPRL job engineer. (Range above 0 HP up to 50 HP)
59	Balancing of Impeller/ Fan & Rotor balancing,	As per Item no- 58, (Range above 50 HP up to 100 HP)
60	Freeing up of Suction or Discharge vane assembly for FD fans	Ensure 100% working condition and applying lubricants and if require bearing to be replace under Agency scope. Bearing to be supplied by ISPRL. (Range above 50 HP up to 100 HP)
61	Pressure ventilation system/ air handling unit Duct filters cleaning	PV room and Air handling unit duct grills Filters to be clean periodically as per job engineer requirement.
62	Complete Overhauling FD / ID Fan,	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, (Range above 100 HP for Cantilever design fans)
63	Overhauling of Power cylinder	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Range above 6 inch diameter of cylinder bore.
64	Complete Overhauling of Tank Mixer Gearbox	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, Tank Mixer Gearbox, Range above 25 HP
65	Complete Overhauling of Screw Pumps,	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, For all HP ranges for Single screw Pumps
66	Complete o/h of twin lobe blower,	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, (Range above 0 HP up to 50 HP)
67	Overhauling of agitator	As per Refer point no. A.2 Rotary Equipment Overhauling Job Scope under Appendix – I, agitator having propeller shaft directly coupled to the motor, Plain propeller shaft



68	Removal or installation of bore well pump:	ETP open well pumps and dewatering pumps up to 2 hp pumps repairing and re fixing.
69	V-Belts Replacement of Rotary Equipment:	Replace the V-belts with new ones and carry out alignment & fix back the belt guard. After power release, take trial run & hand over.
70	Blinding and De-blinding of flange per inch Diameter:	Removal of existing blinds in between flanges by evacuating the product in the line using barrels. Placing of blinds in between flanges by evacuating the product in the line using barrels. The gaskets, nuts, bolts etc. will be supplied by ISPRL.
71	Providing Inspection services	Person with Degree in Mech/Metallurgical/Chemical Engineering with age less than 48 years with working experience in Petroleum Refinery/Fertilizer/Petrochemical/chemical/pressure vessel fabrication Industry having knowledge in maintenance jobs and inspection on the repair jobs, interpretation of NDT, DPT,UT, UFDT, Radiography, Leak Test. Ability to review equipment drawing, process flow diagrams, P&I drawings, experience in carrying external, internal visual inspection etc. The monthly wage shall be in the range of Rs.50,000/- to Rs.55,000/-. However the payment shall be on man-day basis.
72	Additional mobilization charges towards call out / un planned jobs per one crew member (FMH) during 08:00pm to 05: 00 am	In case the agency crew is asked to mobilize for Night time Call out / emergency un-planned jobs, after normal working hours and on holidays/Sundays, Agency shall have to mobilize the manpower as per the requirement specified by ISPRL Job engineer's advice only.
73	Supply of Helper	The job will include other miscellaneous mechanical works other than the jobs described in various lines of this PO. The payment shall be in terms of manpower provided on man-day basis.
74	Supply of Swagelok fabricator	Swagelok certified fabricator for a Normal duty of 8 Hrs. However the payment shall be on man-day basis.
75	Supply of Plumber	providing the skilled plumber with require tools to carry out the miscellaneous plumbing works, repair works.
76	compressor suction and	Compressor Suction/ discharge valve replace with new or working condition valve replace as ISPRL job engineer advice.



	discharge valve replacement	
77	compressor suction and discharge valve reconditioning	If Compressor Suction/ discharge valve not working properly, valve re condition to be done as per ISPRL job engineer advice.
78	Motor/pump broken bolt replacement	Motor/ pump base frame damaged nut & bolts to be replace with new one.
79	motor base frame holes enlargement	Motor/ pump base frame damaged nut & bolts to be replace with new one.
80	Batch for attending emergency and misc. jobs at Sundays and holidays	Batch consisting of 1 FM + 1 FMH + 1 Helper for attending emergency and misc. jobs for 8 hour shift on Sundays and Holidays
81	over time charges for FMH for	Worker working behind 8 hours, than over time charges applicable
82	Over time charges for helper	Worker working behind 8 hours, than over time charges applicable
83	Butt joint- cs non x ray quality	Fabrication of pipe joints using Butt weld by qualified welder (approved x ray quality welder). All consumables like welding rods, to be supplied by contractor.
84	RF pad CS weld joint using E-6	Fabrication of pipe joints, reinforcement pads by qualified welder (approved welder). All consumables like welding rods, to be supplied by contractor.
85	Corrosion Pad	Fabrication and providing of corrosion pad.
86	Fillet Joint-CS using E-6013 W	Fabrication of structural works by qualified welder (approved welder). All consumables like welding rods, to be supplied by contractor.
87	Butt joint- cs x ray quality	Fabrication of pipe joints using Butt weld by qualified welder (approved welder). All consumables like welding rods, to be supplied by contractor.
88	Pipe Coat wrapping coat pipe line	As per underground piping specification coating and inspection to be carried out.



89	Leak Clamp Fabrication	Fabrication and supply of require size of leak clam with rubber gasket
90	Leak clamp installation	Fabrication and supply of require size of leak clam with rubber gasket
91	Hydro test of loops up to 500 mtr	Hydro testing of pipeline using water supplied by ISPRL to required pressure up to stipulated time. Necessary arrangement for water pumping like nipples, hoses, pump, NRV to be supplied by ISPRL
92	Hydro test of loop beyond to 500 mtr	As per ITEM of 90
93	Fabrication of flanges on pipe line	Fabrication of flange joints in pipe line including cutting and welding.
94	Repair / free up of valve	Valve dismantling, cleaning, metal building, machining, lapping and reassembling the valve. Leak to be carried out with rated pressure by the agency
95	Blinding (including fabrication)	Placing of blinds in between flanges by evacuating the product in the line using barrels. The gaskets, nuts, bolts etc. will be supplied by ISPRL
96	De- blinding	Removing of blind for end flanges by evacuating the product in the line using barrels.
97	Gasket Replacement	The work includes replacement of gaskets from flange joints of any size of pipeline. The job includes dismantling of the flange coupling, collecting of product, cutting and replacing the gasket of adequate size and fixing back the dismantled flange complete in all respects and disposing the collected product as advised by Officer in charge. Gaskets will be supplied by ISPRL. This item shall be executed where only replacement of gasket has been carried out in any pipeline.
98	Arresting of flange leaks	As per Refer point no. A.1 The details on scope of work under Appendix – I
99	Fixing of first aid fire hose reel	As per Refer point no. A.1 The details on scope of work under Appendix – I
100	Add pack/valve gland leak pull	Replace the valve stem gland pack with new one and ensure the arrest the gland leak.
101	threaded fittings each joint	The job includes fabrication and installation of pipelines including fittings for portable water, venting lines etc. at a designated area using threaded joints. The



		joints must be completed by use of Teflon tape on the threads. The pipes, 90 bends, angles etc. will be provided by ISPRL.
102	un plugging Lines	Unplugging lines and drain the product to ows line and if required water flushing to be carried out by advice of job engineer.
103	Supply of sand bags	Sand bag with minimum weight should be 25 kgs, grade -2 zone sand to be maintain, supply and transportation under agency scope only. Material stored as per job engineer advice.
104	Civil work excavation	manual excavation or machinery excavation to be done as ISPRL job engineer advice only, above 1 meter depth excavation jobs proper work permit system should follow.
105	filling with available excavate	manual or machinery back filling to be done as ISPRL job engineer advice.
106	supply and filling sand	grade -2 zone sand to be maintain, supply and transportation under agency scope only. Material stored as per job engineer advice.
107	Demolition of PCC work	Job carried out by as per job engineer advice.
108	Demolition of RCC work	Job carried out with machinery as per job engineer advice.
109	Laying PCC 1:1.5:3	Approved Cement to be use for PCC, PCC should be maintain M20 grade
110	Laying RCC	Approved Cement to be use for RCC, RCC should be maintain M20 grade, Rod size to be maintain 8mm to 12mm as per job engineer advice.
111	Dye penetration test	As per welding specification and third party certificate to be submit
112	Stress relieving	As per welding specification and third party certificate to be submit
113	supply of 10 HP de watering pump	only pumping hours will be counted for payment.
114	supply of 5 HP dewatering pump	As per item no 112
115	supply of reinforcement steel	Visakha steel/ Jindal / Tata brands only to be supplied as per requirement. Transport and drooping in the plant at required place is under agency scope.



116	supply of diesel welding machine	Good working condition machine to be supplied along with operator, and if any machine repair occurs while in emergency work, down time hours double the payment will be deducted. Fuel agency scope.
117	Supply and application of metal primer	Agency to provide necessary skilled Manpower, Materials (Consumables as well as non-Consumables), Necessary scaffolding as required and any other material not explicitly mentioned but required to complete the assigned job in entirety.
118	Supply and application of plastic emulation paint	Agency to provide necessary skilled Manpower, Materials (Consumables as well as non-Consumables), Necessary scaffolding as required and any other material not explicitly mentioned but required to complete the assigned job in entirety.