

OIL & GAS DEVELOPMENT COMPANY LIMITED



TENDER ENQUIRY NO. PROC-SERVICES/CB/P&P-4987/2021

**HIRING OF SERVICES FOR EXECUTION OF ATA-2021 JOBS AT
NASHPA PLANT**

Note:

Bid bond of PKR 560,000/- (Pak Rupees Five Hundred Sixty Thousand Only) must be submitted with the technical bid. Please see tender documents for further detail.

The master set of tender documents (services) uploaded on OGDCL website (www.ogdcl.com) is the integral part of this TOR.

Vetted!

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ASAD KHALIQ
Sr. Engr. (Mechatronics)
OGDCL HO, Ext: 2783

**HIRING OF SERVICES FOR EXECUTION OF ATA-2021 AT
NASHPA PLANT**

Nashpa Oil field and LPG Gas Processing plant, District Karak, KPK (located on main Indus highway) consists of Separators, dehydration unit, Condensate stabilization unit, Sale Gas compression area, LPG recovery unit. Annual Turn around (ATA) is planned during **Aug-Sep 2021**. (Tentatively).

General terms & conditions.

1. Technical services are required for execution of Annual Turn Around (ATA-2021) jobs as per attached scope.
2. Total ATA duration may be tentatively **14 days**. (Inclusive of Initial 24 hours which are required for flushing /purging/isolation of plant equipment's and 24 hours for final leak test).
3. The schedule and duration of ATA may be changed (reduced) at any stage. In such situation, OGDCL will go for execution of selected critical/important jobs from planned scope so as to meet the target date of startup and approved ATA time period. Accordingly, payment will be made as per actual only.
4. Contractor's welding/fabrication, scaffolding and insulation crew should report at site 03 days prior to ATA schedule for Fabrication (Shop joints), Shifting and installation of scaffolding and removal of insulation.
5. Contractor's services will remain intact at site till completion of re-insulation, painting, final housekeeping etc.
6. OGDCL reserves the right to change (increase/decrease) the scope of the work at any time keeping in view the operational requirements.
7. Contractor may visit the site to further understand scope of work before submission of bid. Boarding and lodging may be provided during pre-bid site visit only.
8. Contractor should have established with minimum 05 years of working experience of repair and maintenance jobs and submit details of experience along with customer satisfaction/ completion certificate/verifiable documents etc.
9. The ATA jobs are required to be carried out on a fast track basis and it is, therefore, essential that the Contractor shall be prepared to execute the work on a round the clock basis (day & night shift) including on holidays. Working hours for the day may be considered 10 hrs. each for day and night shift excluding lunch breaks, Tea breaks and prayer times.
10. Most of the jobs will be carried out in the day shift however; limited tasks will be carried out in the night shift keeping in view the HSEQ requirements.
11. Skilled manpower should be well experienced in their respective crafts. CVs of supervisory level (mechanical, instrument and electrical) manpower to be provided in Technical Bid. The same supervisory team should be deputed at execution stage.

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12. HSEQ Rules & Regulations will be strictly observed. For complete compliance, contractor will get HSEQ system manual from OGDCL at the time of mobilization.
13. Contractor's manpower will remain at site for complete Leak Test and complete plant startup.
14. OGDCL can replace any activity with another activity of the same scope.
15. After completion of each activity, work order will be duly signed from concerned maintenance sections, Process/operation section and contractor's area supervisor. OGDCL work order system to be followed.
16. Payment will be made as per actual work done after the completion of assigned ATA jobs against verified work order/invoices. Bidder to submit Annex C of provincial sale tax invoice with "submitted" status along with invoices.
17. Unit rates quoted by bidder shall be firm. No extra payments on account of escalation in prices due to any reason shall be admissible.
18. The Contractor shall be paid only for the work duly approved by OGDCL representative. Any rework due to poor quality, demonstrated by NDT results & inspection by OGDCL shall be on Contractor's account.
19. Contractor will be responsible for dismantling, shifting to workshop and back to site after maintenance, re-installation and alignment of equipment/motors with skilled teams.
20. Work methodologies of Jobs (modification jobs, valve testing/repairing, cleaning of vessels, Columns, heat exchangers and repair work of leakages in piping and pressure vessels) will be developed by contractor.
21. All valves will be checked for seat leak tests & body test.
22. The technical manpower must be qualified / skilled and have at least Ten (10) years of individual experience in its trade in the field of Oil & Gas/Petrochemical Processing Plants. Contractor skilled manpower may be interviewed by OGDCL professionals in all disciplines (Mechanical, Electrical and Instrument), if deemed necessary and contractor will ensure presence of required crew for such interview. The detailed CV's of direct manpower/supervisors is mandatory.
23. The Contractor shall quote separate rate in PKR for each activity against the quantities mentioned in the scope of work including all charges (tools, cranes, manpower etc.). Contractor shall mention mobilization & demobilization charges separately.
24. Contractor shall submit in the technical bid; Manpower histogram, to be plotted on each-day basis to show the nos. of people to be on site for execution of ATA works scope. The manpower should be segregated/ separately shown for Mech, Electrical and Instrumentation & Control.
25. Contractor should prepare/submit daily progress report and percentage Gantt chart (planned vs actual) at end of the day.
26. Contractor will provide all the calibration certificates (Hard and Soft copy) of all the instruments which will be carried out in the ATA.
27. Proper certification of lifting gears, cranes, lifters, crane operators, drivers etc. will be mandatory.
28. Contractor should arrange HSE I/C, supervisors, inspectors, first aiders, hole watcher, rescuer, fireman and housekeeping man as per work plan activities.

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OGDCL RESPONSIBILITIES

1. Electricity will be provided for lightening purpose, general maintenance and hydrotest only at site. Instrument air will be provided for calibration/purging purpose. Supply of water for maintenance jobs will be in OGDCL scope. Contractor should arrange its own generator (if required) for all other purpose. No diesel will be provided by OGDCL for contractor's machinery like fork lifter, cranes, welding generator, vehicles etc. Diesel arrangement is in scope of contractor, however, in case of emergency, if any diesel is provided by OGDCL for machinery of contractor, then payment of same will be deducted from ATA invoices.
2. Painting material (Paint, thinner, turpentine, brushes)
3. Spare parts will be provided by OGDCL.
4. Welding electrodes and cutting / grinding discs shall also be provided by OGDCL.
5. Blind/ spades for isolation and pressure testing.
6. NDT/third party inspection/RT etc.
7. Hydro test pumps, tanks and hose pipes.
8. 02 rooms in officer camp for contractor's supervisory officers
9. Nitrogen for leak test.

CONTRACTOR RESPONSIBILITIES

1. HSEQ

1. Contractor will follow OGDCL HSEQ Policy in addition to all governmental regulations applicable to the scope of work for implementation of safe execution of each activity with zero-injury. In case of any accident, OGDCL will not be liable for any claim like insurance etc.
2. Contractor shall submit, before the start of ATA, the detailed documents as follows:
 - a. HSE Risk Assessment
 - b. Emergency Preparedness and Response Plan.
3. Contractor shall strictly follow the Work-to-Permit System and shall provide plan of activities in advance, submit THAs/JHAs where required and engage only certified staff for the hot jobs.
4. Contractor shall develop and ensure Toolbox Talk Program on Safety, Health and Environmental matters in daily HSE briefings by its HSEQ Rep.
5. Provision of PPE's (Helmet, Coverall, safety shoes, gloves, goggles etc.) of all kinds to hired crew.
6. Contractor shall submit to OGDCL representative an HSE Performance Review Report on regular basis.
7. Contractor will be responsible for housekeeping, clean up the trash, spills, food waste, spill of chemicals, oils, whereas potentially hazardous wastes to be immediately reported to OGDCL HSEQ representative. Further any used material will be transported to store yard by contractor.

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8. Contractor shall provide orientation on Emergency Preparedness and Response Procedure to its team and ensure that its personnel are well aware of what procedures are in practice and who is to notify in the event of any emergency.
9. Mobiles, photo camera, cigarettes, lighter etc. are prohibited in the plant premises and contractor should ensure this.
10. Contractor should arrange HSE I/C, supervisors, inspectors, first aid providers, hole watcher, rescuer, fireman and housekeeping man as per work plan activities.
11. Contractor will hire certified crane operator, scaffolder, rigger, drivers, welders, fabricators etc.
12. Each contractor's employee will wear its provided ID card in the premises of plant, ID card will be provided by the contractor displaying name & craft of each employee.
13. In case of any accident of hired crew, medical or compensation will be on contractor's scope. OGDCL will be not responsible for any unfortunate/unforeseen incident faced by manpower and equipment of the contractor.
14. In case of any injury, workmanship compensation of contractor's staff will be contractor's responsibility.
15. Provision of accommodation, food and basic amenities like water / electricity to the contractor's manpower shall be contractor's responsibility. OGDCL shall only provide boarding and lodging to 05 nos. supervisors of the contractor. Also no space shall be provided to the contractor for the accommodation of the manpower.

2. Field Work

1. The contractor should prepare detailed plan (up to Level-IV in Primavera/ Microsoft Project Planner etc.) for ATA activities and submit the plan covering all the ATA activities for carrying out of Nashpa Plant ATA successfully with high quality within stipulated time frame.
2. Contractor must provide man power deployment plan area wise.
3. Contractor will provide daily progress report clearly mentioning the actual work carried out against the planned work.
4. Site administration personnel with associated resources like computers, photocopiers etc.
5. The technical manpower must be qualified / skilled and have at least Ten (10) years of experience in its trade in the field of Oil & Gas/Petrochemical plants. Contractor skilled manpower may be interviewed by OGDCL professionals (Mechanical/Electrical/Instrument). Evaluation of all the short-listed skilled persons will be carried out by OGDCL well before the ATA. Replacement of Skilled personnel will be done with approval of OGDCL. OGDCL reserves the right to replace any person at any time.
6. All welders must be well experienced. Documentary evidence to be provided.
7. Pre ATA jobs/ fabrication works will be started 7 days before scheduled start date of ATA.
8. Locals may be given preference while hiring of skilled/unskilled manpower.
9. Arrangement of 03 Nos diesel engine driven welding machines (minimum).

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10. All consumables like Cotton rages, WD-40, masks, ear muff, Gloves in contractor scope.
11. Scaffolding material, HSD for welding machines, PPEs for welding, all tools including cutters / grinders etc. are in the scope of contractor.
12. Provision of general/routine tool kit to the hired staff. (Tools like spanner sets, striking/spud spanners (24mm to 65 mm), hammers, wrenches, adjustable, ratchet sets, shackles, slings, eye bolts etc)
13. Internal Cleaning of tube bundle and pressure vessels through chemical cleaning or lancer cleaning is in contractor scope as per requirement/recommended by OGDCL team at site.
14. 01 No Hydraulic bolt tensioner/bolt tightened along with operator (55 mm, 60 mm, 65 mm, 95 mm and 115 mm).
15. 01 No Hydro jetting machine along with operator (Engine driven).
16. Contractor shall arrange tools and skilled manpower with proper PPE's for control valve and PSV's pressure testing. Contractor must arrange reputable third party contractor for certification of all the PSV's.
17. Skilled machinists to be provided by contractor for isolation valves/Control valves repairing.
18. Lapping machine and expert machinist to be arranged by contractor.
19. Skilled tray fitter for trays dismantling/installation jobs of towers.
20. Contractor should arrange following equipment for instrument related jobs:

I. Lathe Machine along with expert machinist =	01 No.
II. Lapping Machine / equipment for Lapping of seats, plugs & disks of Control Valves PSVs=	01 No.
III. Branded/classified & certified PSV test Bench, pressure up to 2000 PSIG=	01 No.
IV. HART Communicators Model 475 =	02 No.
V. Milli-ampere Source, =	02 Nos.
VI. Pneumatic Calibrators.	01 Nos.
VII. Digital Multimeters (Fluke / Yokogawa) Nos.	04
VIII. Temperature Bath/ calibrator	01 No.
IX. Multi-Function Process calibrator	01 No.
X. Dead weight Tester	01 No.
XI. Portable pressure calibrator (Fluke/ Ammetek/ Druck etc.) Nos.	02
XII. Tool Boxes having complete tools for electronic & Pneumatic instrument work.	04 Nos
XIII. All essential tools in order to perform the mentioned jobs during ATA.	
XIV. Contractor will submit valid certificates for E & I calibration and testing equipment.	
21. Sufficient Electrical cables (2/3/4 cores), electrical panels, Junction Boxes (having circuit breaker /protections available) for provision of electric supply to different area of plant for jobs like exhaust fans, lights, 24V lights in vessels, cutting, grinding etc. will be in contractor scope.
22. Test equipment for electrical related jobs like, multi-meters, ampere meters, digital earth testers, bearing heater shall be arranged and provided by the contractor. (The contractor for test equipment shall provide Calibration certificates).
23. Contractor will submit company HSE policy manual for implementation of safe execution of each activity with zero-injury target. In case of any accident, OGDCL will not be liable for any claim.

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24. Contractor should arrange HSE team, supervisors, inspectors, first aiders, and will work with close coordination of OGDCL team.
25. Tool kits to electricians and instrument fitters/technicians (Tools like pliers, cutters, star set, comb spanner set, L-key set screw drivers etc.).
26. Removal of Insulation / cladding and re-installation thereof, including any fabrication of by skilled insulators.
27. Scaffolding material and services is in contractor scope.
28. The contractor will carry out security clearance of all the hired crew. OGDCL may provide security to contractor crew within the premises of plant during job execution only. The contractor will solely resolve any issues/matters between the contractor and locals. The contractor will have no authority to terminate/hold the job due to any concerns/issues with locals. The contractor will have to deal with locals at its own. OGDCL will be not responsible for any incident.
29. Boarding / Lodging to all the hired crew will be provided by the contractor.
30. Pick and drop facility for hired crew is in contractor scope.
31. Contractor manpower must have CNIC and contractor identity card, and will follow OGDCL security policy.
32. Contractor will supply Cranes and Fork Lifters to accomplish the attached SOW within stipulated time frame. However, following minimum logistic support with proposed allocation is recommended:

S.No	Detail	Qty	Utilization
1.	Hydraulic Crane, Capacity 50 Ton min.	01 No	For large size heat exch. and jobs at
2.	Hydraulic Crane, Capacity 30Ton min.	02 Nos	01 for Mech and E&I, each
3.	Fork Lifters, Capacity 05 Ton min.	02 Nos	

In case of malfunctioning of crane/lifter, OGDCL will deduct the rental charges as per actual basis on the prevailing market rates.

33. Soft copies of work order may be provided to bidder upon request.
34. Quotation required in PKR against each individual activity to execute the jobs given in the scope of work (SOW) for ATA.
35. Sample Work order and HSE protocol for contractor are attached herewith.
36. The Contractor shall be responsible for ventilation and getting the vessels fit for entry and working environment. Contractor will be responsible for electric power and water supply for their own manpower at its residence facility.

BIDDER'S QUALIFICATION

1. All the interested parties intending to participate to execute the ATAs must fulfil all the requirements / parameters required for bidder qualification as per tender document in their bids. The evaluation of the bids shall be carried out through grading of the contractors according to marks calculated as per criteria attached. A Contractor should earn minimum qualifying marks in each category & total 75 marks as overall in order to qualify. The Minimum qualifying marks in each category are also defined.
2. The Contractor(s) are required to provide the following documents for bidder qualification:

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- I. Certified copy of valid NTN / GST certificates.
 - II. Contractor profile.
 - III. Documentary proof for providing the services by contractor for maintenance jobs (which include copy of purchase orders, Contract, completion certificates etc) of at least Five 05 years in oil & gas or petrochemical plants. The supervisory manpower should have at least 10 year of experience for ATA's in Oil & gas or petrochemical sector. Any ATA experience at other plants like sugar, textile, cement, power generation units etc. will not be considered. Project (like erection of new plants etc.) experience will not be considered as ATA experience.
 - IV. Comprehensive list of all available equipment, tools, camp, office & workshop facilities, logistic equipment, cranes, lifters etc. should be provided. It may be verified physically if necessary.
 - V. Contractor's site organogram of ATA, manpower deployment plan & equipment deployment plan with total numbers of each craft, machinery, tools etc. It should cover all required resources (manpower, machinery & tools) specially; Mechanical, Instrument, Electrical, HSEQ, Inspection crews etc.
 - VI. CVs of the all Management & Supervisory ATA team (as per organogram). The Managers, Engineers, supervisors should have experience of ATA execution.
 - VII. List of all the offices and service agencies across Pakistan.
 - VIII. Contractor's HSEQ policy & detail required to claim the marks as per annexure-A Sr. No. 05.
 - IX. Verifiable copy of purchase orders & satisfactory performance certificate from Oil & Gas companies, refineries or petrochemical plants for execution of previous ATA in order to claim the marks.
 - X. Lev-1 or 2 (MS Project/MS project or equivalent) schedule to demonstrate how the ATA work will be executed within OGDCL specified time line. The schedule must include all major machinery and tools/ equipment required to carry out ATA activities.
3. In case of bid submitted by any Joint Venture Contractors, the experience of one Contractor will be considered for evaluation (for example 01-year experience of one Contractor & 01 year of the another JV Contractor will not be considered as two years. Similarly, two ATAs performed by one Contractor & one ATA by JV will not be considered as three ATAs. Contractor to provide JV agreement.
4. Contractor declared as black listed at PPRA website will not be entertained.
5. All interested parties / bidders are requested to visit at site to clarify / understand the scope of work if deem necessary. It will also helpful to understand the scope & submit the bid well in time.
6. OGDCL requirement for bidders is to explicitly demonstrate in their "Technical Bid Submission" that they have allocated enough manpower, machinery, equipment, tools etc. to carry out all ATA activities safely

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and within planned timeline. Any bidders appearing to be short of resources in their technical bid submission may be rejected. It should also be noted that after award of ATA Contract/service order by OGDCL, Contractor shall have sole responsibility to review the current situation/ onsite situation (including any changes to priorities by OGDCL) and arrange the additional resources (people/ machinery, Tools, equipment, etc.) to ensure ATA delivery within stipulated timeline and OGDCL defined targets. All such activities shall be performed without additional and/or extra cost to OGDCL.

7. Bidder shall confirm to provide & execute all activities as per TOR / Scope of work, any bidder who will obtain 75 marks but not confirm to execute complete TOR / Scope of work will be declared as technically non responsive.

Contractor's Qualification Criteria

Sr #	Evaluation Item	Description of Criteria	Marks Calculations	Max. Marks	Min. Qualifying Marks	Remarks
1	Contractor strength to execute Mechanical, Electrical & Instrumentation work.	Contractor should have five year experience for execution of Mechanical, Electrical and Instrument works in ATAs	Fully Complied : 15 Marks	15	15	The Contractor should submit the detail of scope of work along with supporting documents to prove that they have executed Mechanical, Electrical & Instrument activities during ATAs. Experience of Contractor itself will be considered only (experience of manpower is separately covered in TOR).
2	Specific experience of Annual Turn Around (ATA).	Contractor's experience of ATAs.	Contractor shall earn 06 marks against each ATA up to maximum of 30 marks, Only 05 ATAs will be considered for Marks calculation.	30	18	In order to get 06 Marks for each ATA, the value/ worth of each previous ATA performed by contractor should be at least 10 Million (PKR). If value/ Cost of ATA performed is less than 10 Million but above 07 Million (PKR) 05 points each. If value/ Cost of ATA performed is less than 07 Million but above 04 Million (PKR) 04 points each. If value/ Cost of ATA performed is less than 04 Million but above 1.5 Million (PKR) 03 points each. If value/ Cost of ATA performed is less than 1.5 Million then it will not be considered.
3	Lead Management Experience and site deployment Organogram	Relevant professionals' CVs & site deployment Organogram	Lead Management: 02 Marks Discipline Incharges: 03 Marks Lead Supervisors: 03 Marks Site deployment Organogram for	10	10	Lead Management must be 15+ years experienced and seasoned professionals with excellent technical knowledge, communication skills and vast experience of ATAs management. Discipline Incharges and Lead Supervisors must be 10+ years experienced professionals having excellent technical knowledge, field experience and expert in their discipline. Discipline Incharges must be well versed with Job Procedures, plans, modern techniques and have experience of working in tight schedules and similar projects. No marks will be given incase CV do not meet the minimum requisite experience.

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Sr #	Evaluation Item	Description of Criteria	Marks Calculations	Max. Marks	Min. Qualifying Marks	Remarks
			Mechanical, Instrument & Electrical works: 02 Marks			
4	Certifications.	Contractor should provide following valid certificates; 1. ISO 9000 certification: 2. ASME U/R/S-Stamp 3. PEC Registration	1. 02 Marks 2. 02/01/01 Marks 3. 09 Marks	15	9	Contractor should submit the valid copy of certificates. If the certificate status is in progress no marks shall be given.
5	Offices, Workshop, Tools, Equipment, Machinery, Infrastructure.	Contractor should have following facilities with in Pakistan. 1. Workshop & office, 2. Tools to execute the ATA activities (Mechanical, Instrument, Electrical). 3. Equipment / Machinery (Valve test bench, hydro jetting machines, welding machines/ Generators). 4. Cranes, fork lifters.	1. 03 Marks 2. 08 Marks 3. 03 Marks 4. 06 Marks (04 + 02)	20	15	Established workshop: 02 Marks Established Office: 01 Marks Mechanical tools: 04 Marks. Instrument tools: 02 Marks. Electrical tools: 02 Marks. 01 Marks for each main equipment / Machinery. 01 Crane (Min 30 tons). 02 Marks Max: 04 Marks 01 fork lifters (Min 5 Tons). 01 Mark Max: 02 marks
6	Safety & HSE Policy	1. Contractor's documentary evidence of HSE policy with commitment to provide PPE, Helmet, Ear plugs and safety shoes to the skilled labor at work. 2. Well defined HSE policy with commitment and to provide 1 Million Safe Man hours' record. 3. Deployment of first aid boxes & medical team for the labor at site.	1. 04 Marks for full compliance, partial compliance zero Marks. 2. 04 Marks, 3. 02 Marks for full compliance, partial compliance zero Marks.	10	8	The Contractor who will provide 1 Million safe man hours record will be awarded 04 marks while the Contractor who will provide 0.5 Million safe man hours record will be awarded 02 Marks.

Total Marks= 100

Minimum Qualifying Marks = 75

- Contractors capable of executing Electrical, Instrument & Mechanical activities will be considered for qualification. Partial compliance i.e. if the Contractor has experience of mechanical jobs only, having no experience in Electrical & Instrumentation field & vice versa, then it will be not considered for qualification.

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2. Contractor should get minimum qualifying marks in each category as mentioned in above table. Contractor will not be qualified if above mentioned minimum qualifying marks in any category will not be scored by the contractor. In addition, the total marks should also be not less than 75. Any contractor who will score less than 75 marks shall not be considered for qualification. Bidder must comply Sr# 01 & 03.
3. In case of JV, JV agreement to be provided by contractor. Experience of both JV partners will be not added together for marks calculation in single category.
4. Contractor must have Five years' total experience of providing ATA/ shutdown services. Contractors having experience less than Five years will be disqualified & shall not be considered for qualification even if they score marks more than 75 as per above tabulated criteria. In order to prove Five years' experience, Contractor can claim the ATA whose worth / value is less than Rs.1.5 million however these ATA shall not be considered for marks calculation and only ATAs having worth / value more than Rs. 1.5 million will be considered for marks calculation as per above table Sr. No. 02.

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NASHPA ATA-2021 SCOPE OF WORK (MECHANICAL)

SR #	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Unit rate PKR	Total Price PKR
Slug Catcher & Separation Batteries. (Unit-2000/2100)						
1.	Installation of Scaffolding at Slug Catcher Oil Header	SC-2001	20	20 ft ²		
2.	Opening/cleaning/inspection of end plates of Slug Catcher Water finger (both ends).	SC-2001	20	1 no.		
3.	Opening/cleaning/inspection of HMC HP/MP/LP Separators	V-2101/2102/2103	21	3 nos.		
4.	Cleaning of all LGs of HMC HP/MP/LP separators	V-2101/2102/2103	21	3 nos.		
5.	Opening/cleaning/inspection of Battery # 1 Separators HP/MP/LP	HP-1,HP-2, MP-1,MP-2, LP-1,LP-2	21	6 nos.		
6.	Opening/cleaning/inspection of Battery # 2 Separators HP	HP-1	21	1 no.		
7.	Opening/cleaning/inspection of Battery # X5 Separators HP	X5	21	1 no.		
8.	Cleaning of all LGs of Battery # 1 Separators HP/MP/LP	HP-1/2, MP-1/2, LP-1/2	21	3 nos.		
9.	Cleaning of all strainers of SC-2001/HMC HP/MP/LP Separators	V-2101/2102/2103	21	3 nos.		
10.	Opening/cleaning/inspection of Battery # 2 HP Separator of Well #8.	Battery # 2	21	1 no.		
11.	Install strainers at U/S of LCV-2001 & LCV-2002	V-2001/V-2002	21	2 nos.		
12.	Opening & cleaning of New HEX and pressure test.	E-2001A/B	21	2 nos.		
13.	External cleaning of inlet evaporative cooler, louvre inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection.	EA-2101	21	1 no.		
14.	Opening/Cleaning/Inspection of Mela KOD.	Unit-2000	21	1 no.		
15.	Removal of Scaffolding at Slug Catcher Oil Header	SC-2001	20	20 ft ²		
Crude Stabilization Unit (Unit-2200)						
16.	Installation of Scaffolding at Stabilizer Reboiler /Stabilizer Heat Exchanger	E-2201/E-2202	22	Approx. 40 ft ²		
17.	Removal of Insulation at Stabilizer Reboiler/Stabilizer Heat Exchanger Condensate Filters Condensate Coalescer Filters	E-2201/E-2202/F-2201A/B/ F-2202	22	Approx. 500 ft ²		
18.	Opening/cleaning/inspection of Flash Separator	V-2201	22	1 no.		
19.	Replacement/cleaning of filters	F-2201 A/B	22	2 nos.		
20.	Replacement/cleaning of coalescer filters	F-2202	22	1 no.		
21.	Strainer Cleaning of P-2201 A/B.	P-2201 A/B	22	2 nos.		
22.	Opening/cleaning/inspection of tower.	C-2201	22	1 no.		
23.	Reboiler removal/cleaning/replacement/Pressure Testing.	E-2201	22	1 no.		
24.	Pre-heater removal/cleaning/Pressure Testing.	E-2202	22	1 no.		
25.	Cleaning of all LGs of condensate stabilization unit.		22	1 no.		
26.	External cleaning of crude cooler, lower inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection.	EA-2201/2204	22	2 nos.		
27.	Overhead Compressor 1st/2nd stage & New KOD Opening/cleaning/inspection.	V-2202/2203/2204	22	3 nos.		
28.	Cleaning of Suction Strainers.		22	1 no.		
29.	External cleaning of 1st/2nd Stage, Jacket water/Auxiliary Water Coolers, lower inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection.	EA-2202/2203	22	2 nos.		
30.	Install FEC area Crude oil new line to new crude manifold.	Unit-2200	22	Sch 80, Dia inch 75Approx.		
31.	Develop Tie-inns for new LP Compressor discharge to MP Header.	Unit-2200	22	Sch 80, Dia inch 16 Approx.		
32.	Area NDT Support.(Re-boiler vapor outlet to C2201) (Removal of insulation/installation /surface preparation)	Unit-2200	22	1 no.		
33.	Painting of Exhaust of Engine.(Overhead compression package)	Unit-2200	22	1 no.		
34.	Removal of Scaffolding at Stabilizer Reboiler Stabilizer Reboiler /Stabilizer Heat Exchanger	E-2201 E-2202	22	Approx. 40 ft ²		
35.	Installation of Insulation at Stabilizer Reboiler/Stabilizer Heat Exchanger/Condensate Filters/Condensate Coalescer Filters.	E-2201/E-2202/F-2201A/B/ F-2202	22	Approx. 500 ft ²		
Gas Dehydration Unit (Unit-2300)						
36.	Installation of scaffolding at Dehydration Unit	Unit-2300	23	Approx. 70 ft ²		

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NASHPA ATA-2021 SCOPE OF WORK (MECHANICAL)

SR #	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Unit rate PKR	Total Price PKR
37.	Removal of Insulation at Dehydration Unit	Unit-2300	23	100 ft ²		
38.	Opening/cleaning/inspection of inlet scrubber	V-2301	23	1 no.		
39.	Replacement/cleaning of Feed Gas Coalescer Filter	F-2301 A/B	23	2 nos.		
40.	Replacement/cleaning of Dust Filter	F-2302 A/B	23	2 nos.		
41.	Replacement/cleaning of Mercury Filter	F-2303 A/B	23	2 nos.		
42.	Inspection of Mol. Sieve Desiccant. (Man way Opening of V-2302 A/B/C), removal of floating screen (Replacement of floating Screen/Removal of 3/4" Ceramic Balls/Desiccant Decanting top layer and makeup), Mesh Installation If required.	V-2302A/B/C	23	3 nos.		
43.	Inlet Gas Cooler removal/cleaning/Pressure Testing, tube internal cleaning (Hydrojetting + manual rodding) is essential.	E-2304	23	1 no.		
44.	Regen Gas Pre-heater removal/cleaning/replacement/Pressure Testing, tube internal & external cleaning (Hydrojetting + manual rodding) is essential.	E-2303	23	1 no.		
45.	Regen Gas heater removal/cleaning/replacement/Pressure Testing, external tube cleaning is required.	E-2302	23	1 no.		
46.	External cleaning of Regen Gas Cooler, lower inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection. Opening of tubes plugs both sides, dismantling of 4"x 900 connections, internal cleaning (Hydrojetting + manual rodding) is required. Eddy Current testing is required.	EA-2301	23	1 no.		
47.	Cleaning of all LGs of gas dehydration unit.	Unit-2300	23	6 nos.		
48.	Opening/cleaning/inspection of Regen scrubber	V-2303	23	1 no.		
49.	Suction Strainer cleaning of Regen Blowers	K-2301 A/B	23	2 nos.		
50.	NDT Support of the Reg gas area.	Unit-2300	23	1 no.		
51.	Fabrication/installation of 2" line from V-2301 Inlet scrubber to new crude manifold)	V-2300	23	Sch 160, Dia inch 300 Approx.,		
52.	Installation of Insulation at Dehydration Unit	Unit-2300	23	100 ft ²		
53.	Removal of scaffolding at Dehydration Unit	Unit-2300	23	Approx. 70 ft ²		
LPG Recovery Unit (Unit-2400)						
54.	Installation of Scaffolding at LPG Unit	Unit-2400	24	20 ft ²		
55.	Removal of Insulation from LPG Unit	Unit-2400	24	50 ft ²		
56.	Bypass installation.	E- 2409	24	Sch 80, Dia inch 160 Approx., Sch 160, Dia inch 10 Approx.		
57.	Opening/inspection/cleaning of V-2404/2405/2406/2407 & C-2401/C-2402/C-2403/C-2404 man ways. (LTX/De-C2 OVHD/De-C4 OVHD/De-C3 OVHD/Absorber/De-C2/De-C4/De-C3 Towers)	V-2404/2405/2406/2407 & C-2401/C-2402/C-2403/C-2404	24	8 nos.		
58.	Cleaning of all screens of LPG recovery unit.	Unit-2400	24	6 nos.		
59.	Cleaning of all LGs of LPG recovery unit.	Unit-2400	24	6 nos.		
60.	Cleaning of Suction Strainers of P-2401/2402/2403/2404 A/B.	P-2401/2402/2403/2404 A/B.	24	4 nos.		
61.	Re-boilers De-C2/De-C4/De-C3 removal/cleaning/Pressure Testing.	E-2405/E-2407/2408	24	3 nos.		
62.	External cleaning of LPG Condenser EA-2401, EA-2403/EA-2404/EA-2701 (Product Coolers), lower inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection.	EA-2401, EA-2403/EA-2404/EA-2701	24	4 nos.		
63.	Rotor assembly replacement of TER (Turbo Expander).	Unit-2400	24	1 no.		
64.	Refrigeration Package propane cooler water basin cleaning.	Unit-2400	24	1 no.		
65.	Refrigeration Package propane coolers cleaning and fans inspection.	Unit-2400	24	1 no.		
66.	Painting of Exhaust of Engines of Ref Package	Unit-2400	24	1 no.		
67.	Installation of Insulation at LPG Unit	Unit-2400	24	50 ft ²		

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NASHPA ATA-2021 SCOPE OF WORK (MECHANICAL)

SR #	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Unit rate PKR	Total Price PKR
68.	Removal of Scaffolding from LPG Unit	Unit-2400	24	20 ft ²		
Hot Oil Heaters (Unit-3100)						
69.	Installation of Scaffolding at Hot Oil Side Stream Filter Vessel	Unit-3100	31	20 ft ²		
70.	Removal of Insulation at Hot Oil Circulation Pump Strainers	Unit-3100	31	Approx. 100 ft ²		
71.	Suction strainer cleaning of Hot Oil Pumps	P-3101 A/B/C	31	3 nos.		
72.	Hot Oil Filter replacement/cleaning	F3101	31	1 no.		
73.	Opening of Hot Oil Heaters man ways and inspection windows for internal inspection & cleaning.	H-3101 A/B	31	2 nos.		
74.	Main burner tip inspection and cleaning if required.	F-3101	31	1 no.		
75.	Pilot flame arrestor cleaning.	Unit-3100	31	1 no.		
76.	Refractory repair (If required).	H-3101-A	31	1 no.		
77.	Pilot Gun cleaning.	H-3101-B	31	1 no.		
78.	Inspection of Air Blowers.	Unit-3100	31	1 no.		
79.	Hot Oil Leakage removal.	Unit-3100	31	1 no.		
80.	Rectification of Hot Oil closed drain header leakage near Hot Oil Storage Vessel. (Excavation required).	Unit-3100	31	1 no.		
81.	Installation of Insulation at Hot Oil Circulation Pump Strainers	Unit-3100	31	Approx. 100 ft ²		
82.	Removal of Scaffolding at Hot Oil Side Stream Filter Vessel	Unit-3100	31	20 ft ²		
Sales Gas Compressors (Unit-2500)						
83.	Sales Gas Compressors K-2501 A/B/C suction & discharge KOD's opening/internal inspection/cleaning.	Unit-2500A/B/C	25	3 nos.		
84.	Sales Gas Compressors K-2501 A/B/C Discharge Coolers/Jacket Water Cooler/Auxiliary Water Cooler external cleaning & lower inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection.	Unit-2500A/B/C	25	3 nos.		
85.	General Housekeeping of Sales Gas Compressors K-2501 A/B/C canopy.	Unit-2500A/B/C	25	3 nos.		
86.	Painting of Exhaust of Sales Gas Compressors A/B/C.	Unit-2500A/B/C	25	3 nos.		
87.	Cleaning of all LGs of Gas compression unit.	Unit-2500	25	3 nos.		
LPG Storage & Loading (Unit-2700/2800)						
88.	Removal of Insulation from LPG loading pump skid	Unit-2700/2800	27	75 ft ²		
89.	Suction strainer cleaning of P-2701 A/B/C, P-2702 A/B, P-2801 A/B.	Unit-2700/2800	27/28	7 nos.		
90.	Flaring provision of leaky LPG bowser (ATA-19 pending Job/HSEQ CPR raised).	Unit-2700/2800	27/28	Sch 80, Dia inch 240 Approx.		
91.	Relocation of LPG storage common vent valve.	Unit-2700/2800	27/28	Sch 80, Dia inch 100 Approx.		
92.	Installation of Insulation from LPG loading pump skid	Unit-2700/2800	28	75 ft ²		
Instrument Air & Nitrogen Generation Package (Unit-3400/3900)						
93.	Cleaning & Replacement of filters F-3401 A/B/C/D, F-3402 A/B, F-3901 A/B, F-3902 A/B, F-3903 A/B.	Unit-3400 Unit-3900	34 39	12 nos.		
94.	Cleaning of Instrument Air Package Coolers & Air Coolers.	Unit-3400 Unit-3900	34 39	2 nos.		
95.	Dryer Desiccant replacement if required.	Unit-3400 Unit-3900	34 39	2 nos.		
Flare System/Closed Drain System/Produced Water System (Unit-3200/3300/3800)						
96.	Cleaning of Strainer of Produced water Transfer Pumps	P-3801A/B	38	2 nos.		
97.	Flare KO Drum Opening and Cleaning.	V-3201	38	1 no.		
98.	Flare KO Drum Pump Suction strainer cleaning.	P-3201 A/B	32	2 nos.		
99.	Produced Water Pump Suction strainer cleaning.	P-3804 A/B	32	2 nos.		
100.	Internal Cleaning of CPI Tank	TR-3801	32	1 no.		
101.	Opening/Internal Cleaning/inspection of (Degasser).	V-3801	38	1 no.		
102.	Opening/Internal Cleaning/inspection of (Closed Drain Vessel).	V-3301	38	1 no.		
103.	Cleaning of flame arrestor	V-3301	38	1 no.		
104.	Pump inspection.	P-3301 A/B	38	2 nos.		

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NASHPA ATA-2021 SCOPE OF WORK (MECHANICAL)

SR #	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Unit rate PKR	Total Price PKR
105.	Inspection/cleaning of Oily water basin	T-3801	38	1 no.		
106.	Flare Stack Burner Tip Inspection.	Unit-3200	38	1 no.		
107.	Closed Drain header Leakage rectification in LPG Area. (Excavation required).	Unit-3200/3300/3800	38	1 no.		
108.	Hookup of Closed Drain vessel to Degasser.(ECR Approval/Raised)	Unit-3200/3300/3800	38	Sch 80, Dia inch 60 Approx.		
Fire Water System/Utility Water System RO Unit (Unit-3500/3700)						
109.	Cleaning of Suction Strainers of Utility area pumps	P-3701 A/B/C	37	3 nos.		
110.	PVC Leakages rectification.	Unit-3500	37	1 no.		
111.	Cleaning of Coagulation Tank	C-001.	37	1 no.		
112.	Inspection of Fire Water Pumps	P-3501 A/B, P-3502, P3503 A/B	35	4 nos.		
Power house						
113.	External Cleaning of Coolant Air Coolers.	G1/G2/G3	37	3 nos.		
114.	Cleaning of Air Filters.	G1/G2/G3	37	3 nos.		
115.	General Housekeeping of Generator Enclosure & Power House.	G1/G2/G3	35	3 nos.		
Metering skid Area						
116.	Removal of old Metering Skids (8" & 6") with double barrel separator at Old facility (Shed also needs to removed)			1 no.		
117.	Removal of blinds 4"x1500 RTJ 6"x600 RF 6"x600 RTJ 8"X600 RTJ 2"x 600 RF			5 nos.		
118.	Installation of PCV manifold at Sales Gas Compressor discharge line before metering (Manifold removed from Slug Catcher will be used)			1 no.		
Front End Compressor Unit						
119.	FEC's A/B/C/D Strainers Cleaning.			4 nos.		
120.	FEC's A/B/C/D Suction & Discharge KOD's opening/cleaning/inspection.			4 nos.		
121.	FEC's A/B/C/D Discharge cooler/Jacket water cooler/Auxiliary water cooler external cleaning & louver inspection & rectification (if required), fan pitch inspection, fan shaft & hub inspection.			4 nos.		
122.	Cleaning of all LGs of FEC Unit.			4 nos.		
Service & replacement of Valves						
123.	LT 2001 Isolating Valves (3"x600)	Slug Catcher Area		1 no.		
124.	HMC HP Separator liquid outlet line Ball valve replacement (10"x900)	HMC Separator Area		2 nos.		
125.	Greasing of valves <ul style="list-style-type: none"> • 12" 900# RTJ Ball Valve • 10" 600# RTJ Ball Valve • 8" 150# RF Ball Valve • 12" 900# RTJ Gate Valve • 10" 600# RTJ Gate Valve 	Separator Area		40 nos.		
126.	Mercury Guard Bed Ball valve replacement (10"x600)	Dehydration Unit		2 nos.		
127.	Old Metering Skid isolation Ball valve replacement (6"x600,8"x600)	Old Metering Skid		2 nos.		
128.	Replacement of Upstream isolation valve of PSV 3104 (8"x300)	Hot Oil System		1 no.		
129.	Replacement of Absorber bottom Methanol injection ball valve (1"x600)	LPG Unit		1 no.		
130.	Replacement of Ethanizer Column top Gas line (8"x300)	LPG Unit		1 no.		
131.	LT Drain needle Valve replacement (3/4"x600)	Compressors Area		1 no.		
132.	OVHD Compressor 2nd stage discharge NRV replacement (3"x600)	Compressors Area		1 no.		

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NASHPA ATA-2021 SCOPE OF WORK (ELECTRICAL)

SR #	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Unit rate PKR	Total Price PKR
Slug Catcher & Separation Batteries. (Unit-2000/2100)						
1.	Servicing, Maggering, Greasing of motors of Slug Catcher Area Motors.	P-2001A,B	20	2 nos.		
2.	Servicing, Greasing of motors of HMC Separator Area Motors.	EA-2101A,B, P-2101A,B,C,D	21	6 nos.		
3.	Bearing replacement of inlet evaporative air cooler motor of HMC separator area.	EA2101A,B(30 KW each)	21	2 nos.		
Crude Stabilization Unit (Unit-2200)						
4.	Servicing, Greasing of motors of Condensate stabilization Area Motors.	P-2201A,B, EA-2201A,B,C,D	22	6 nos.		
5.	Bearing replacement of condensate air cooler motor of condensate stabilization area.	EA2201A,B,C,(30 KW each)	22	4 nos.		
Gas Dehydration Unit (Unit-2300)						
6.	Servicing, Greasing of motors of Dehydration Area Motors along with cleaning.	M-2301A,B, EA 2301A,B	23	4 nos.		
7.	Bearing replacement of cooler fan motor of dehydration area	M3202 18.5 KW	23	1 no.		
LPG Recovery Unit (Unit-2400)						
8.	Turbo Expander Seal Gas/Lube oil Heater Inspection		24	1 no.		
9.	Servicing of motors of LPG Area Motors.	EA-2402A,B,	24	2 nos.		
10.	Servicing of motors of LPG Area Motors.	TE-2401A,B, TE-EA 2401A,B	24	4 nos.		
11.	Servicing of motors of LPG Area Motors.	P-2401A,B, P-2402A,B, P-2403A,B, P-2404A,B,	24	8 nos.		
12.	Servicing of motors of LPG Area Motors.	PU-2401A Pump-A,B PU-2401B Pump-A,B	24	4 nos.		
13.	Servicing of motors of LPG Area Motors.	EA-2405A,B,C,D,	24	4 nos.		
14.	Servicing of motors of LPG Area Motors.	EA-2405/1,2 P-2405A,B	24	4 nos.		
15.	Servicing of motors of LPG Area Motors.	EA-2401A,B,C,D,	24	4 nos.		
16.	Servicing of motors of LPG Area Motors.	P-2431A,B,C	24	3 nos.		
17.	Bearing replacement of De-Botanizer OVHD condenser air cooler motor of LPG area	EA-2401A,C(18.5 KW each)	24	2 nos.		
Hot Oil Heaters (Unit-3100)						
18.	Servicing, Greasing of motors of Hot Oil Area Motors.	M-3101,M-3102,P-3101A,B,C,EA-3101A,B,C,B-3101 A,B,C,D,P-3102	31	13 nos.		
19.	Bearing replacement of hot oil circulation pump motor	P3101A	31	1 no.		
20.	Overhauling of Hot Oil Heater Ignition system		31	1 no.		
Sales Gas Compressors (Unit-2500)						
21.	Bearing replacement of cooler fan motors of sale gas compressor area	2501 A-FAN2,FAN3(18.5 KW each)	25	2 nos.		
22.	Bearing replacement of cooler fan motors of sale gas compressor area	2501B-FAN1(18.5 KW),2501B-FAN4(22 KW)	25	2 nos.		
23.	Bearing replacement of cooler fan motors of sale gas compressor area	2501C-FAN2(18.5 KW),2501C-FAN4(22 KW)	25	2 nos.		
24.	Bearing replacement of cooler fan motors of sale gas compressor area	2501C-FAN2(18.5 KW),2501C-FAN4(22 KW)	25	2 nos.		
25.	Servicing, Greasing of motors of Sale Gas Compressor Area Motors.	2501A-FAN1,2,3,4,5,2501B-FAN1,2,3,4,5, 2501A-JB06A,B,2501B-JB06A,B, 2501C-FAN1,2,3,4,5, 2501C-JB06A,B, EA2502A,B, P-2510A,B,C	25	26 nos.		
LPG Storage & Loading (Unit-2700/2800)						
26.	Servicing, Greasing of motors of LPG Storage Area Motors.	P-2701A,B,C, P-2702A,B	27	5 nos.		
27.	Servicing , Greasing of motors of Propane storage Area Motors.	P-2801A,B	28	2 nos.		
28.	Bearing replacement of LPG loading pump motor of LPG storage area	P2701A/B(30 KW)	27	2 nos.		
Instrument Air & Nitrogen Generation Package (Unit-3400/3900)						
29.	Cleaning / greasing of instrument air compressor motors	P-3501A,B	34 39	2 nos.		

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NASHPA ATA-2021 SCOPE OF WORK (ELECTRICAL)

SR #	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Unit rate PKR	Total Price PKR
Flare System/Closed Drain System/Produced Water System (Unit-3200/3300/3800)						
30.	Servicing, Greasing of motors of Produced Water Area Motors.	P-3801A,B, P-3804A,B	38	4 nos.		
31.	Servicing, Greasing of motors of Flare Area Motors.	P-3201A,B	38	2 nos.		
32.	Servicing, Greasing of motors of Closed drain Area Motors.	P-3301A,B	33	2 nos.		
33.	Bearing replacement of produced water disposal pump motor of produced water area.	P3804A/B(7.5 KW)	38	2 nos.		
34.	Overhauling of flare ignition system		38	1 no.		
35.	Flare Knock Out Heater Inspection		38	1 no.		
Fire Water System/Utility Water System RO Unit (Unit-3500/3700)						
36.	Servicing Greasing of motors of Water treatment Area Motors.	P-3701A,B,C, P-3702A,B	37	5 nos.		
37.	Servicing, Greasing of motors of Firefighting Area Motors.	P-3501A,B, P-3502 P-3503A,B	35	5 nos.		
Power house						
38.	Cleaning, Servicing of Alternator of Plant Gas and Diesel Generators.	G1/G2/G3/G4	37	4 nos.		
39.	Cleaning, Servicing of Gas and Diesel Generator's control panels.	010-GCP-001, 010-GCP-001, 010-GCP-002,010-GCP-003, 010-GCP-004	37	4 nos.		
Front End Compressor Unit						
40.	Cleaning, Maggering, Greasing and bearing replacement if required of motors of Front End Gas Compressor Area Motors.			16 nos.		
Diesel Tank Area						
41.	Servicing, Greasing of motors of diesel system Area Motors.	P-4001 A,B	40	2 nos.		
Methanol system						
42.	Servicing, Greasing of motors of Methanol system Area Motors.	P-4101A,B	41	2 nos.		
43.	Providing electrical supply ,extension boards and flood lights at area as per requirement					
MCC ROOM						
44.	Inspection ,servicing, Cleaning ,tightening of terminations of Power / control cables of MCC modules, VFD Modules, Soft Starters modules.	AA1, AA2, AA3, AA4, AA5, AA6, AA7, AA8, AA9, AA10, AA11, AA12, AA13, AA14, AA15, AA16, AA17, AA18, AA19, 1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7, 1A8, 1A9, 1A10, 1A11, 1A12, 1A13, 1A14, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7, 1B8, 1B9, 1B10, 1B11, 1B12, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7, 3A1, 3A2, 3A3, 3A4		54 nos.		
45.	Cleaning, Servicing of UPS Panels.	UPS-1, UPS-2		2 nos.		
46.	Cleaning, Servicing of UPS Batteries.			372 nos.		
47.	Rectification of faulty lighting of the area specially Separation Area			5 nos.		
48.	Inspection /tightening of Main Bus bar.	Power House / MCC	35	Approx 100 Mtr.		
49.	All electric heat tracing Inspection & rectification.			50 mtr.		
50.	Servicing and cleaning of HVAC system of CCR			1 no.		
51.	Rectification /replace faulty cooling fan/ lightening of Marshalling Cabinets.			5 nos.		
52.	Provide supply for new Fire Water filling pump at RO unit.			1 no.		
53.	Rectification/replacement of faulty skid & street lights.			10 nos.		
54.	Servicing of HVAC of MCC and Sales Gas Compressor Control Cabin.			1 no.		

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Format of the Financial Bid:

NASHPA ATA-2021 SCOPE OF WORK (INSTRUMENT)

- 1- PSV's Dismantling, shifting to workshop, calibration, re installation is mandatory. lapping/machining/parts replacement will be performed if required.
- 2- Control Valves Inspection, Cleaning & Stroke checking is mandatory. Dismantling, lapping, parts replacement, calibration & reinstallation should be performed if required.
- 3- Transmitters & switches work consists of calibration and cleaning/servicing.

S. No	Description of Job/Asset	Asset/Detail/ Equipment Tag #	Model/Size	Area Code	Qty	Unit rate PKR	Total price PKR
Slug Catcher & Separation Batteries. (Unit-2000/2100)							
1	Pressure Safety Valve	PSV-2003	Crosby 4", 4L6JBS-E55RJ	20	1 no.		
2	Pressure Safety Valve	PSV-2004	Crosby 4", 4L6JBS-E55RJ	20	1 no.		
3	Pressure Control Valve	PCV-2001	6"	20	1 no.		
4	Pressure Control Valve	PCV-2002	10"	20	1 no.		
5	Level Control Valve	LCV-2001	10"	20	1 no.		
6	Level Control Valve	LDCV-2002	3"	20	1 no.		
7	Level Transmitter	LT-2003	Fisher DLC2010	20	1 no.		
8	Level Transmitter	LDT-2002	Fisher DLC2010	20	1 no.		
9	Temperature Transmitter	TT-2001		20	1 no.		
10	Temperature Transmitter	TT-2004		20	1 no.		
11	Pressure Transmitter	PT-2001		20	1 no.		
12	Pressure Transmitter	PT-2002		20	1 no.		
13	Pressure Transmitter	PT-2003		20	1 no.		
14	Pressure Safety Valve	PSV-H01	EFS-1415, 4"	21	1 no.		
15	Pressure Safety Valve	PSV-H02	EFS-1415, 4"	21	1 no.		
16	Pressure Control Valve	PCV-H01	NORRISEAL 8", RJ-21TGS-12NX	21	1 no.		
17	Pressure Control Valve	PCV-M01	NORRISEAL 2", RJ-14TGS-12NX	21	1 no.		
18	Pressure Control Valve	PCV-L01	NORRISEAL 2", RF-02TGS-12NX	21	1 no.		
19	Level Control Valve	LCV-H01A	NORRISEAL 6", RJ-21TGS-L8NX	21	1 no.		
20	Level Control Valve	LCV-H01B		21	1 no.		
21	Level Control Valve	LCV-H02A	NORRISEAL 2", RJ-21TGS-12NX	21	1 no.		
22	Level Control Valve	LCV-H02B		21	1 no.		
23	Level Control Valve	LCV-M01	NORRISEAL 6"	21	1 no.		
24	Level Control Valve	LCV-M02	NORRISEAL 1", RJ-14TGS-12NX	21	1 no.		
25	Level Control Valve	LCV-L01	NORRISEAL 4", RF-02TGS-10NX	21	1 no.		
26	Level Control Valve	LCV-L02	NORRISEAL 1", RF-02TGS-12NX	21	1 no.		
27	Level Transmitter	LT-M01		21	1 no.		
28	Level Transmitter	LT-M02		21	1 no.		
Crude Stabilization Unit (Unit-2200)							
29	Level Control Valve	LDCV-2201	Fisher 1"	22	1 no.		
30	Level Control Valve	LDCV-2203	Fisher 1"	22	1 no.		
31	Level Control Valve	LCV-2202	10"	22	1 no.		
32	Temperature Control Valve	TCV-2209	10"	22	1 no.		

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33	Level Control Valve	LCV-2205	Fisher 6"	22	1 no.		
34	Temperature Control Valve	TCV-2217	Fisher 3"	22	1 no.		
35	Level Control Valve	LCV-2204	Fisher 6"	22	1 no.		
36	Pressure Control Valve	PCV-2203A	Fisher 1.5"	22	1 no.		
37	Pressure Control Valve	PCV-2203B	Fisher 1.5"	22	1 no.		
38	Pressure Control Valve	PCV-2223	Fisher 3"	22	1 no.		
39	Pressure Control Valve	PCV-2224	3"	22	1 no.		
40	Pressure Control Valve	PCV-2233	2"	22	1 no.		
41	Pressure Control Valve	PCV-2229	2"	22	1 no.		
42	Level Control Valve	LCV-2211		22	1 no.		
43	Level Control Valve	LCV-2206	2"	22	1 no.		
44	Level Control Valve	LCV-2207	2"	22	1 no.		
45	Level Control Valve	LCV-2208	2"	22	1 no.		
46	Level Differential Transmitter	LDT-2201		22	1 no.		
47	Level Differential Transmitter	LDT-2202		22	1 no.		
48	Level Transmitter	LT-2205		22	1 no.		
49	Level Transmitter	LT-2202		22	1 no.		
50	Level Transmitter	LT-2207		22	1 no.		
51	Level Transmitter	LT-2208		22	1 no.		
52	Level Transmitter	LT-2206		22	1 no.		
53	Level Transmitter	LT-2204		22	1 no.		
54	Level Transmitter	LT-2211		22	1 no.		
55	Pressure Transmitter	PT-2207		22	1 no.		
56	Pressure Transmitter	PT-2212		22	1 no.		
57	Pressure Transmitter	PT-2219		22	1 no.		
58	Pressure Differential Transmitter	PDT-2203		22	1 no.		
59	Pressure Differential Transmitter	PDT-2202		22	1 no.		
60	Pressure Differential Transmitter	PDT-2201		22	1 no.		
61	Temperature Transmitter	TT-2221		22	1 no.		
62	Temperature Transmitter	TT-2201		22	1 no.		
63	Temperature Transmitter	TT-2223		22	1 no.		
64	Pressure Safety Valve	PSV-2300	Crosby 4", 4L6JBS-E55RJ	23	1 no.		
65	Pressure Safety Valve	PSV-2309	Crosby 1.5", 1.5D2JBS-E55RJ	23	1 no.		
66	Pressure Safety Valve	PSV-2308	Crosby 1", 1D2JBS-E45J	23	1 no.		
67	Level Control Valve	LCV-2320	Fisher 2" 300	23	1 no.		
68	Level Control Valve	LCV-2301	2"	23	1 no.		
69	Level Control Valve	LCV-2303	2"	23	1 no.		
70	Level Control Valve	LCV-2300	2"	23	1 no.		
71	Temperature Control Valve	TCV-2330	14"	23	1 no.		
72	Temperature Control Valve	TCV-2355		23	1 no.		
73	Pressure Control Valve	PCV-2319	10"	23	1 no.		
74	Pressure Transmitter	PT-2320A		23	1 no.		
75	Pressure Transmitter	PT-2320B		23	1 no.		
76	Pressure Transmitter	PT-2321A		23	1 no.		
77	Pressure Differential Transmitter	PDT-2300		23	1 no.		

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78	Pressure Differential Transmitter	RDT-2301		23	1 no.		
79	Pressure Differential Transmitter	PDT-2302		23	1 no.		
80	Pressure Differential Transmitter	PDT-2303		23	1 no.		
81	Pressure Differential Transmitter	PDT-2304		23	1 no.		
82	Temperature Transmitter	TT-23052B		23	1 no.		
83	Temperature Transmitter	TT-2324A		23	1 no.		
84	Temperature Transmitter	TT-2324B		23	1 no.		
85	Flow transmitter	FT-2304		23	1 no.		
LPG Recovery Unit (Unit-2400)							
86	Pressure Safety Valve	PSV-2402	Anderson Greenwood 3", 24910L34/S	24	1 no.		
87	Pressure Safety Valve	PSV-2407	Crosby 4", 4L6JBS-E35J	24	1 no.		
88	Level Control Valve	LCV-2400	6"	24	1 no.		
89	Level Control Valve	LCV-2401	4"	24	1 no.		
90	Level Control Valve	LCV-2403	4"	24	1 no.		
91	Level Control Valve	LCV-2404	6"	24	1 no.		
92	Level Control Valve	LCV-2406	4"	24	1 no.		
93	Level Control Valve	LCV-2407	3"	24	1 no.		
94	Level Control Valve	LCV-2409	2"	24	1 no.		
95	Level Control Valve	LCV-2410	10"	24	1 no.		
96	Level Control Valve	LCV-2411	4"	24	1 no.		
97	Temperature Control Valve	TCV-2403	6"	24	1 no.		
98	Temperature Control Valve	TCV-2404	4"	24	1 no.		
99	Pressure Control Valve	PCV-2412	12"	24	1 no.		
100	Flow Control Valve	FCV-2402	Fisher	24	1 no.		
101	Pressure Control Valve	PCV-2435	8"	24	1 no.		
102	Temperature Control Valve	TCV-2422	6"	24	1 no.		
103	Pressure Control Valve	PDCV-2404	6"	24	1 no.		
104	Flow Control Valve	FCV-2404	6"	24	1 no.		
105	Temperature Control Valve	TCV-2428	6"	24	1 no.		
106	Pressure Control Valve	PCV-2428A	2"	24	1 no.		
107	Pressure Control Valve	PCV-2428B	6"	24	1 no.		
108	Flow Control Valve	FCV-2406	6"	24	1 no.		
109	Temperature Control Valve	TCV-2449	10"	24	1 no.		
110	Pressure Control Valve	PCV-2434A	2"	24	1 no.		
111	Pressure Control Valve	PCV-2434B	2"	24	1 no.		
112	Flow Control Valve	FCV-2407	2"	24	1 no.		
113	Temperature Control Valve	TCV-2457	2"	24	1 no.		
114	Level Transmitter	LT-2411		24	1 no.		
115	Level Transmitter	LT-2400		24	1 no.		
116	Level Transmitter	LT-2401/1		24	1 no.		
117	Level Transmitter	LT-2401/2		24	1 no.		
118	Level Transmitter	LT-2402		24	1 no.		
119	Level Transmitter	LT-2403		24	1 no.		
120	Level Transmitter	LT-2404		24	1 no.		

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121	Level Transmitter	LT-2405		24	1 no.		
122	Level Transmitter	LT-2406		24	1 no.		
123	Level Transmitter	LT-2407		24	1 no.		
124	Level Transmitter	LT-2408		24	1 no.		
125	Level Transmitter	LT-2409		24	1 no.		
126	Level Transmitter	LT-2410		24	1 no.		
127	Flow transmitter	FT-2406		24	1 no.		
128	Flow transmitter	FT-2432		24	1 no.		
129	Flow transmitter	FT-2409		24	1 no.		
130	Flow transmitter	FT-2407		24	1 no.		
131	Flow transmitter	FT-2459		24	1 no.		
132	Flow transmitter	FT-2402		24	1 no.		
133	Pressure Transmitter	PT-2453		24	1 no.		
134	Pressure Transmitter	PT-2434		24	1 no.		
135	Pressure Transmitter	PT-2454		24	1 no.		
136	Pressure Transmitter	PT-2419		24	1 no.		
137	Pressure Differential Transmitter	PDT-2400		24	1 no.		
138	Pressure Differential Transmitter	PDT-2405		24	1 no.		
139	Pressure Differential Transmitter	PDT-2406		24	1 no.		
140	Pressure Differential Transmitter	PDT-2411		24	1 no.		
141	Pressure Differential Transmitter	PDT-2404		24	1 no.		
142	Pressure Differential Transmitter	PDT-2408		24	1 no.		
143	Pressure Differential Transmitter	PDT-2410		24	1 no.		
144	Pressure Differential Transmitter	PDT-2413		24	1 no.		
145	Pressure Differential Transmitter	PDT-2401		24	1 no.		
146	Temperature Transmitter	TT-2456		24	1 no.		
147	Temperature Transmitter	TT-2457		24	1 no.		
148	Pressure Differential Transmitter	PDT-2402		24	1 no.		
149	Pressure Differential Transmitter	PDT-2403		24	1 no.		
150	Pressure Differential Transmitter	PDT-24904		24	1 no.		
151	Pressure Differential Transmitter	PDT-24905		24	1 no.		
152	Pressure Differential Transmitter	PDT-24941		24	1 no.		
153	Pressure Differential Transmitter	PDT-24942		24	1 no.		
154	Pressure Differential Transmitter	PDT-24958		24	1 no.		
155	Pressure Differential Transmitter	PDT-24959		24	1 no.		
156	Temperature Transmitter	TT-24934		24	1 no.		
157	Temperature Transmitter	TT-24935		24	1 no.		
Sale Gas compressor (Unit 25)							
158	Pressure Safety Valve	PSV-2502A	Farris,4"	25	1 no.		
159	Pressure Safety Valve	PSV-2502B	Farris,4"	25	1 no.		
160	Pressure Safety Valve	PSV-2502C	Farris,4"	25	1 no.		
161	Pressure Control Valve	PCV-2500	8"	25	1 no.		
162	Pressure Control Valve	PCV-2510	3"	25	1 no.		
163	Pressure Control Valve	PCV-2501A	1"	25	1 no.		

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164	Pressure Control Valve	PCV-2501B	1"	25	1 no.		
165	Pressure Control Valve	PCV-2501C	1"	25	1 no.		
166	Flow Control Valve	FCV-2502A	2"	25	1 no.		
167	Flow Control Valve	FCV-2502B	2"	25	1 no.		
168	Flow Control Valve	FCV-2502C	2"	25	1 no.		
169	Level Control Valve	LCV-2500A	1"	25	1 no.		
170	Level Control Valve	LCV-2500B	1"	25	1 no.		
171	Level Control Valve	LCV-2500C	1"	25	1 no.		
172	Level Control Valve	LCV-2505A	1"	25	1 no.		
173	Level Control Valve	LCV-2505B	1"	25	1 no.		
174	Level Control Valve	LCV-2505C	1"	25	1 no.		
175	Level Transmitter	LT-2513		25	1 no.		
176	Level Transmitter	LT-2500A		25	1 no.		
177	Level Transmitter	LT-2500B		25	1 no.		
178	Level Transmitter	LT-2500C		25	1 no.		
179	Level Transmitter	LT-2501A		25	1 no.		
180	Level Transmitter	LT-2501B		25	1 no.		
181	Level Transmitter	LT-2501C		25	1 no.		
182	Pressure Transmitter	PT-2505C		25	1 no.		
183	Pressure Transmitter	PT-2503A		25	1 no.		
184	Pressure Transmitter	PT-2503B		25	1 no.		
185	Pressure Transmitter	PT-2503C		25	1 no.		
186	Temperature Transmitter	TT-2502B		25	1 no.		
187	Temperature Transmitter	TT-2502C		25	1 no.		
188	Temperature Transmitter	TT-2503A		25	1 no.		
189	Temperature Transmitter	TT-2503B		25	1 no.		
190	Temperature Transmitter	TT-2503C		25	1 no.		
Instrument Air & Nitrogen Generation Package (Unit-3400/3900)							
191	Pressure Control Valve	PCV-3401	NPS 1 GX	34	1 no.		
192	Pressure Control Valve	PCV-3402	NPS 1 GX	34	1 no.		
193	Pressure Control Valve	PCV-3409	NPS 1 GX	34	1 no.		
194	Pressure Transmitter	PT-3402		34	1 no.		
195	Pressure Transmitter	PT-3409		34	1 no.		
Fire Water System/Utility Water System RO Unit (Unit-3500/3700)							
Front End Compressor Unit							
196	Pressure Transmitter	PT-2902C		29	1 no.		
197	Pressure Transmitter	PT-2903C		29	1 no.		
198	Pressure Transmitter	PT-2918C		29	1 no.		
199	Pressure Transmitter	PT-2912D		29	1 no.		
200	Pressure Transmitter	PT-2914D		29	1 no.		
201	Pressure Transmitter	PT-2915D		29	1 no.		
202	Pressure Transmitter	PT-2919D		29	1 no.		
203	Pressure Transmitter	PT-2918D		29	1 no.		
204	Pressure Differential Transmitter	PDT-2910A		29	1 no.		
205	Pressure Differential Transmitter	PDT-2910B		29	1 no.		
206	Pressure Differential Transmitter	PDT-2910C		29	1 no.		

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207	Pressure Differential Transmitter	PDT-2910D		29	1 no.		
208	Pressure Safety Valve	PSV-2901A	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
209	Pressure Safety Valve	PSV-2902A	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
210	Pressure Safety Valve	PSV-2903A	INLET: 3"- 900RTJ, OUTLET: 6"-150RF	29	1 no.		
211	Pressure Safety Valve	PSV-2904A	INLET: 1.5"- 150 RF, OUTLET: 3"- 150RF	29	1 no.		
212	Pressure Safety Valve	PSV-2901B	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
213	Pressure Safety Valve	PSV-2902B	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
214	Pressure Safety Valve	PSV-2903B	INLET: 3"- 900RTJ, OUTLET: 6"-150RF	29	1 no.		
215	Pressure Safety Valve	PSV-2904B	INLET: 1.5"- 150 RF, OUTLET: 3"- 150RF	29	1 no.		
216	Pressure Safety Valve	PSV-2901C	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
217	Pressure Safety Valve	PSV-2902C	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
218	Pressure Safety Valve	PSV-2903C	INLET: 3"- 900RTJ, OUTLET: 6"-150RF	29	1 no.		
219	Pressure Safety Valve	PSV-2904C	INLET: 1.5"- 150 RF, OUTLET: 3"- 150RF	29	1 no.		
220	Pressure Safety Valve	PSV-2901D	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
221	Pressure Safety Valve	PSV-2902D	INLET: 4"- 600RF, OUTLET: 6"-150RF	29	1 no.		
222	Pressure Safety Valve	PSV-2903D	INLET: 3"- 900RTJ, OUTLET: 6"-150RF	29	1 no.		
223	Pressure Safety Valve	PSV-2904D	INLET: 1.5"- 150 RF, OUTLET: 3"- 150RF	29	1 no.		
LPG storage (unit 27)							
224	Pressure Safety Valve	PSV-2741	1"	27	1 no.		
225	Pressure Switch Low	PAL-2701		27	1 no.		
226	Pressure Switch High	PAH-2704		27	1 no.		
Hot Oil (Unit 31)							
227	Temperature Control Valve	TCV-3107	3"	31	1 no.		
228	Temperature Control Valve	TCV-3101	1 1/2"	31	1 no.		
229	Temperature Control Valve	TCV-3103	1 1/2"	31	1 no.		
230	Flow Control Valve	FCV-3101	6"	31	1 no.		
231	Flow Control Valve	FCV-3104	8"	31	1 no.		
232	Flow Control Valve	FCV-3102	8"	31	1 no.		
233	Pressure Control Valve	PCV-3121		31	1 no.		
234	Pressure Control Valve	PDCV-3101	6"	31	1 no.		
235	Pressure Control Valve	PDCV-3102	10"	31	1 no.		
236	Temperature Transmitter	TT-3154		31	1 no.		
237	Temperature Transmitter	TT-3101		31	1 no.		
238	Temperature Transmitter	TT-3102		31	1 no.		
239	Temperature Transmitter	TT-3126		31	1 no.		
240	Temperature Transmitter	TT-3129		31	1 no.		
241	Pressure Transmitter	PT-3162		31	1 no.		
242	Pressure Transmitter	PT-3163		31	1 no.		
243	Pressure Differential Transmitter	PDT-3103		31	1 no.		
244	Pressure Switch Low	PSL-3101		31	1 no.		

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245	Pressure Switch Low	PSL-3102		31	1 no.		
246	Pressure Switch Low	PSL-3103		31	1 no.		
247	Pressure Switch High	PSH-3101		31	1 no.		
248	Pressure Switch High	PSH-3102		31	1 no.		
249	Pressure Switch High	PSH-3103		31	1 no.		
250	Pilot flame and Main Burner Scanners BE-3103A/B/C, BE-3104A/B/Cetc Checking and Monitoring of Burners and Cleaning			31	12 nos.		
Fuel Gas System (Unit 30)							
252	Pressure Safety Valve	PSV-3001	2"	30 nos.	1 no.		
253	Level Control Valve	LCV-3001	1"	30	1 no.		
254	Pressure Control Valve	PCV-3002A	2"	30	1 no.		
255	Pressure Control Valve	PCV-3002B	2"	30	1 no.		
256	Pressure Transmitter	PT-3002		30	1 no.		
257	Pressure Transmitter	PT-3004		30	1 no.		
258	Temperature Transmitter	TT-3002		30	1 no.		
259	Flow transmitter	FT-3004		30	1 no.		
Flare Unit(32)							
260	Level Transmitter	LT-3201		32	1 no.		
261	Temperature Transmitter	TT-3201		32	1 no.		
Produced water Degasser (Unit 38)							
262	Pressure Safety Valve	PSV-3801	1 1/2"	38	1 no.		
Miscellaneous							
263	Level Control Valve	LCV-HP1 BATTERY 1	2"		1 no.		
264	Level Control Valve	LCV-HP2 BATTERY 1	2"		1 no.		
265	Level Control Valve	LCV-MP1 BATTERY 1	2"		1 no.		
266	Level Control Valve	LCV-MP2 BATTERY 1	2"		1 no.		
267	Level Control Valve	LCV-LP1 BATTERY 1	2"		1 no.		
268	Level Control Valve	LCV-LP2 BATTERY 1	2"				
269	Flare tip TTs inspection, cleaning and testing of 3 Nos. of thermocouple	ATA contractor scope of work.			1 no.		

COST SUMMARY

Sr.	Description	Price in PKR
1.	Cost of Services for ATA jobs, activity wise breakdown should be provided as per enclosed document/ scope of work (the cost must be inclusive of all types of equipment's, tools, machinery, consumable and PPE) for: - I. Mechanical works II. Electrical works III. Instrument works	
2.	Mob / Demob. cost, if any	
	Total cost inclusive of all applicable taxes (except Provincial Sales Tax / ICT Tax on services in Pakistan), duties, levies, charges etc	

Note:

- a) Total price should be inclusive of all applicable taxes (except Provincial Sales Tax / ICT Tax on services in Pakistan), duties, levies, charges etc.
- b) Bidders are requested to quote the above mentioned rates separately for each activity of the jobs at Sr# 01 and provide the activity wise break down as per attached list.
- c) OGDCL reserves the right to delete / cancel any activity mentioned in the scope of work at any stage of the ATA and payment will be made as per actual job done.
- d) No Advance payment will be made at the time signing the contract
- e) **Contract will be awarded to financially lowest evaluated bidder on complete package basis.**
- f) The price quoted by the successful bidder (contractor) for required services shall remain firm and final throughout the contract period. The price charged by the successful bidder (contractor) for required services shall not vary from the prices quoted by the service company.
- g) Price shall be quoted against each activity however payment will be made as per actual against verified invoices and submission of completion certificate duly signed by Filed Manager, Relevant Incharges.
- h) Commercial Invoice should be included the activity list with pricing verified by filed official.
- i) Sales Tax invoice with Annexure 'C', showing 50% of the total KPST submitted to KPRA (as per KPRA's latest rules), must be provided.

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