OIL & GAS DEVELOPMENT COMPANY LIMITED



TENDER ENQUIRY NO. PROC-SERVICES/CB/P&P-4982/2021

HIRING OF SERVICES FOR EXECUTION OF ATA-2021 JOBS AT DAKHNI PLANT

Note:

Bid bond of **PKR 900,000/- (Pak Rupees Nine Hundred 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.



OIL & GAS DEVELOPMENT COMPANY LTD.

Dakhni Gas Processing Plant TERMS OF REFERENCE (TOR) for ATA 2021

Dakhni gas processing plant is situated in Tehsil Jand District Attock. Dakhni plant consists of Separators, Glycol dehydration units, Amine sweetening unit, NGL fractionation unit, LPG unit and Sulphur recovery units. Annual Turn Around (ATA) is planned during August 2021 (Tentatively).

General terms & conditions.

- 1. Technical services are required for execution of Annual Turn Around (ATA-2020) jobs as per attached scope.
- 2. Total ATA duration may be tentatively 20-25 days. (inclusive of Initial 48 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 shut down may be changed at any stage.
- **4.** Contractor's welding/fabrication, scaffolding and insulation crew should report at site 07 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.** Documentary proof for providing the satisfactory services for ATA / Shutdown (which include copy of purchase orders, Contract, completion certificates showing nature of job, client name & value) of at least 05 years in oil & gas, refinery or petrochemical plants. ATA at other plant like sugar, textile, cement, power plants etc. will not be considered. Project (like erection of new plants etc.) experience will not be considered as ATA experience.
- 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.
- **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 start up.
- **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.
- **29.** Dakhni is sour gas processing plant (H2S) and contractor should provide awareness to its crew about working in H2S environment.

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. Welding electrode, cutting disks, WD-40 and spare parts like gaskets, bearings etc. will be provided by OGDCL.
- **3.** Painting material (Paint, thinner, turpentine, brushes), however painting services and scaffolding required during painting job will be contractor's scope.
- **4.** Blind/ spades for isolation and pressure testing.
- **5.** NDT/third party inspection/RT etc.
- **6.** Hydro test pumps, tanks and hose pipes for in-place chemical cleaning.
- 7. 01 No tube bundle extractor & 01 No hydro jetting machine.
- **8.** Site office to contractor (Old canteen).
- 9. 02 rooms in officer camp for contactor's supervisory officers
- **10.** Nitrogen for leak test.

CONTRACTOR RESPONSIBILITIES

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.
- 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's of contractor.
- 14. In case of any injury, workmanship compensation of contractor's staff will be contractor's responsibility.
- 15. Contractor to follow all SOP's regarding Covid 19.

Field Work

- 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 Dakhni Plant ATA
 successfully with high quality within stipulated time frame.
- 2. Contractor must provide man power deployment plan area wise.
- 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.
- Locals may be given preference while hiring of skilled/unskilled manpower.
- 9. Arrangement of 05 Nos diesel engine driven welding machines (minimum).
- 10. Cotton rages, masks, ear muff etc in contractor scope.
- 11. 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)
- 12. 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.
- 13. 01 No Hydraulic bolt tensioner/bolt tightener along with operator (55 mm, 60 mm, 65 mm, 95 mm and 115 mm). Requirement of hydra-tight is mentioned with relevant job. It may also be utilized for some control valves.
- 14. 01 No Hydro jetting machine along with operator (Engine driven).
- 15. 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.
- Skilled machinists to be provided by contractor for isolation valves/Control valves repairing.
- 17. Lapping machine and expert machinist to be arranged by contractor.
- 18. Skilled tray fitter for trays dismantling/installation jobs of towers.
- 19. Contractor should arrange following equipment's 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. Modern & good condition PSV test Bench / Hydro test equipment's, pressure upto 2000 PSIG= 01 No
 - IV. HART Communicators = 02 No
 - V. milli Ampere Source, Multimeter (02 Nos),
 - VI. Pneumatic Calibrators. 02 nos
 - VII. Digital Multimeters (Fluke / Yokogawa) 02 nos
 - **VIII.** All essential tools in order to perform the mentioned jobs during ATA.
- 20. 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.
- 21. Test equipment for electrical related jobs like, multi-meters, ampere meters, digital earth testers, bearing heater shall be arranged and provided by the contractor. (Calibration certificates shall be provided by the contractor for test equipment).
- 22. 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.

- 23. Contractor should arrange HSE team, supervisors, inspectors, first aiders, and will work with close coordination of OGDCL team.
- 24. Tool kits to electricians and instrument fitters/technicians (Tools like pliers, cutters, star set, comb spanner set, L-key set screw drivers etc.).
- 25. Removal of Insulation/ cladding and re-installation by skilled insulators including its fabrication/cutting.
- 26. Scaffolding services with material is in contractor scope.
- 27. Security clearance of all the hired crew will be carried out by the contractor. OGDCL may provide security to contractor crew within the premises of plant during job execution only. Any issues/matters between the contractor and locals will be solely resolved by the contractor. 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 handling any issues between local and contractor.
- 28. Boarding / Lodging to all the hired crew will be provided by the contractor.
- 29. Pick and drop facility for hired crew is in contractor scope.
- 30. Contractor manpower must have CNIC and contractor identity card, and will follow OGDCL security policy.
- 31. 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 100 Ton, boom length 180-200 feet	01 No	Separator, Flare & SRU area Jobs
2.	Hydraulic Crane, Capacity 60 Ton	01 No	Amine & Glycol Area Jobs
3.	Hydraulic Crane, Capacity 40 Ton	01 No	NGL & LPG area Jobs
4.	Hydraulic Crane, Capacity 40 Ton	01 No	Fabrication, Elect and inst. Jobs
5.	Fork Lifters, Capacity 05 Ton	03 No	For Mech Jobs
6.	Fork Lifter(Telescopic), Capacity 05 ton	01 No	Elect and inst. Jobs

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

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

BIDDER 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:
 - 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. The supervisory manpower should have at least 10 year of experience for ATA's in Oil & gas or petrochemical sector.
 - 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 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.

FINANCIAL BID FORMAT

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, duties,								
	levies etc. except PST/ ICT on Services								

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'must be provided.

TECHNICAL QUALIFICATION CRITERION

Sr. No	Evaluation Item	Description of Criteria	Marks Calculations	Max. Marks	Min. Qualifying Marks	Remarks
1	Contractor strength to execute Mechanical, Electrical & Instrumentatio n 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 Mechanical, Instrument & Electrical works: 02 Marks	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.
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, 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.	04 Marks for full compliance, partial compliance zero Marks. 04 Marks, 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

Note: All contractors / bidders are requested to provide all required documents in the technical bid, Points calculation will be carried out as per available record / evidence in the bid.

- 1. 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.
- 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. 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.
- 4. In case of JV, original JV agreement must be provided by the lead partner/bidder. However Experience of ONLY lead partner in JV will be considered for allocation of marks in Technical Evaluation of bidders.

Dakhni Gas Processing Plant Scope of Work for ATA-2021

SR #	PM/SR	Description of Job	Asset/Detail/ Equipment Tag #	Area Code	QTY	Tools Required	Unit Price in PKR	Tota I Price in PKR
		Mechancial A	ctivities					
		Separator/Flare/Utilitie	s Area Activitio	es				
1	M- SCF100-P	Scaffolding at Separator Area		DKN-100		5 ft pipe 30 nos, 10ft pipe 150 nos, 20 ft pipe 100 Nos, Joints 500, Planks		
2	M- INS100-R	Removal of Insulation at Separator Area	Approx 2500 sq. ft	DKN-100	2500 sq feet			
3	M- 100FA1	Complete Cleaning including Demister of HP Separator-Sour (hydratight required)	100-FA-01	DKN-100	1	Stricking Spanner M65 (Qty 01) Combinatio n Spanner M65 (Qty 01) Hammer 5lb (Qty 02 Nos)		
4	M- 100FA2	Complete Cleaning including Demister of HP Separator-Sour (hydratight required)	100-FA-02	DKN-100	1	Comb. Spanners 24/27 (Qty 01) Stricking Spanner M65 (Qty 01) Combinatio n Spanner M65 (Qty 01) Hammer 51b (Qty 02 Nos)		
5	M- 100FA3	Complete Cleaning including Demister of HP Test Separator-Sour (hydratight required)	100-FA-03	DKN-100	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M65 (Qty 01),		

						Combinatio n Spanner M65 (Qty 01) Hammer 5lb (Qty 02 Nos)	
6	M- 100FA4	Complete Cleaning including Demister of LP Separator-Sour	100-FA-04	DKN-100	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 51b (Qty 02 Nos)	
7	M- 100FA5	Complete Cleaning including Demister of HP Separator-Sweet (hydratight required)	100-FA-05	DKN-100	1	Stricking Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01) Hammer 5lb (Qty 02 Nos)	
8	M- 100FA6	Complete Cleaning including Demister of HP Test Separator-Sour (hydratight required)	100-FA-06	DKN-100	1	Comb. Spanners 30/32 (Qty 01), Stricking Spanner M75 (Qty 01), Combinatio n Spanner M75 (Qty 01) Hammer 51b (Qty 02 Nos)	
9	M- 903FA2	Complete Cleaning of Produced Sour Water Degasser	903-FA-02	DKN-100	1	Comb. Spanners 30/32 (Qty 01), Stricking Spanner M40 (Qty 01), Combinatio n Spanner	

						M40 (Qty 01)
						Hammer 5lb (Qty 02 Nos)
10	M- 902FA1	Complete Cleaning of HC Flare KnockOut D rum	902-FA-01	DKN-902	1	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01) Hammer 5lb (Qty 02 Nos)
11	M- 902FA2	Complete Cleaning of Acid Gas Flare Knock Out Drum	902-FA-02	DKN-902	1	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01) Hammer 5lb (Qty 02 Nos)
12	AM- 902GA1- A	Complete Cleaning of HC Flare Knockout P ump	902-GA-01A	DKN-902	1	
13	AM- 902GA1- B	Complete Cleaning of HC Flare Knockout P ump	902-GA-02B	DKN-902	1	
14	AM- 902GA2	Complete Cleaning of Acid Gas K.O pump	902-GA-02B	DKN-100	1	
15	M- 902FA4	Complete Cleaning of Hydrocarbon Flare Stack & Inspection/dismantling of Tips	902-FA-04	DKN-902	1	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01) Hammer 5lb (Qty 01 No) Crane 100 Ton
16	M- 902FA5	Complete Cleaning of Acid Gas Flare Stack & Inspection/dismantlin g of Tips	902-FA-05	DKN-902	1	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01) Hammer

						5lb (Qty 01 No) Crane 100 Ton	
17	M- 100FB1	Complete Cleaning of NGL Stock Tank	100-FB-01	DKN-100	1	Stricking Spanner M30 (Qty 01),Strickin g Spanner M32 (Qty 01), Combinatio n Spanner M30/32 (Qty 01) Hammer 51b (Qty 01 No)	
18	M- 100FB2	Complete Cleaning of NGL Stock Tank	100-FB-02	DKN-100	1	Stricking Spanner M30 (Qty 01),Strickin g Spanner M32 (Qty 01), Combinatio n Spanner M30/32 (Qty 01)Hamme r 5lb (Qty 01 No)	
19	M- 100FB3	Complete Cleaning of NGL Stock Tank	100-FB-03	DKN-100	1	Stricking Spanner M30 (Qty 01),Strickin g Spanner M32 (Qty 01), Combinatio n Spanner M30/32 (Qty 01) Hammer 5lb (Qty 01 No)	
20	AM- 805C1-A	Inspection/Maintenan ce of IA compressor	805-C-001A	DKN-800	1		
21	AM- 805C1-B	Inspection/Maintenan ce of IA compressor	805-C-001B	DKN-800	1		
22	M- 800CT-A	Complete Cleaning of Cooling Tower forced Draft	801-CT-01F	DKN-800	1		
23	M- 800CT-B	Complete Cleaning of Cooling Tower forced Draft	801-CT-01E	DKN-800	1		

24	M- 800CT-C	Complete Cleaning of Cooling Tower forced Draft	801-CT-01D	DKN-800	1		
25	M- 800CT-D	Complete Cleaning of Cooling Tower forced Draft	801-CT-01C	DKN-800	1		
26	M- 800CT-E	Complete Cleaning of Cooling Tower forced Draft	801-CT-01B	DKN-800	1		
27	M- 800CT-F	Complete Cleaning of Cooling Tower forced Draft	801-CT-01A	DKN-800	1		
28	M- 120FA1	Removal of End Plates (36", 06 Nos) & Complete Cleaning of slug catcher (Hydratight required)		DKN-90	1	Stricking Spanner M65 (Qty 01), Combinatio n Spanner M65 (Qty 01) Hammer 5lb (Qty 01 No) Crane 30 Ton	
29	M- 120EA1	Complete Cleaning of line heater		DKN-90	1	Stricking Spanner M65 (Qty 01), Combinatio n Spanner M65 (Qty 01) Hammer 5lb (Qty 01 No) Crane 30 Ton	
30	AM- 912GA-A	Inspection/Maintenan ce of Demin Water Pump	912-GA-01A	DKN-912	1		
31	AM- 912GA-B	Inspection/Maintenan ce of Demin Water Pump	912-GA-01B	DKN-912	1		
32	M- 912FB1	Internal Cleaning of Demin Water Tank	912-FB-01	DKN-912	1	Comb. Spanners 24/27 Hammer 3lb (Qty 01 No)	
33	SR	Servicing/Inspection/ Replacement of Well Flow Lines/HP&Test Headers Valves (6"x600 12 Nos & 8" Class 600/900 15		DKN-100	1		

		Valves).					
34	SR	Servicing/Inspection/ Replacement of Well Flow Lines NRV's (6" Class 900 10 Nos, 8" Class 900 10 Nos).		DKN-100	1		
35	AM- 100GA1- A	Inspection/Maintenan ce of Crude Transfer Pump	100-GA-01A	DKN-100	1		
36	AM- 100GA1- B	Inspection/Maintenan ce of Crude Transfer Pump	100-GA-01B	DKN-100	1		
37	AM-802- GA1A	Inspection/Maintenan ce of Raw water Pump	802-GA-01A	DKN-800	1		
38	AM-802- GA1B	Inspection/Maintenan ce of Raw water Pump	802-GA-01B	DKN-800	1		
39	AM-803- GA1A	Inspection/Maintenan ce of Potable water Pump	803-GA-01A	DKN-800	1		
40	AM-803- GA1B	Inspection/Maintenan ce of Potable water Pump	803-GA-01A	DKN-800	1		
41	AM- 912PA1	Maintenance of Demin Water Plant	912-PA-01	DKN-800	1		
42	AM- 901GA-A	Inspection/Maintenan ce of Fire Water Pump-Motor driven	901-GA-01A	DKN-800	1		
43	AM- 901GA-B	Inspection/Maintenan ce of Fire Water Pump-Engine driven	901-GA-01B	DKN-800	1		
44	AM- 801GA-A	Inspection/Maintenan ce of Cooling Water Pump	801-GA-01A	DKN-800	1		
45	AM- 801GA-B	Inspection/Maintenan ce of Cooling Water Pump	801-GA-01B	DKN-800	1		
46	M- SCF100- R	Removal of Scaffolding from Separator Area	Approx 2500 sq.ft.	DKN-100	2500 sq feet	5 ft pipe 30 nos, 10ft pipe 150 nos, 20 ft pipe 100 Nos, Joints 500, Planks 80	

47	M- INS100-I	Installation of New/Old Insulation at Separator Area	Approx 2500 sq. ft	DKN-100	2500 sq feet	
		Amine/Glycol/Hot Oil	Area Activities			
48	M- SCF200-P	Scaffolding at Amine/Glycol/Hot oil Areas	Approx 5000 sq.ft.	DKN-200	5000 sq feet	5 ft pipe 40 nos, 10 ft pipe 150 nos, 20 ft pipe 100 Nos, Joints 800, Planks 150
49	M- INS200-R	Removal of Insulation at Amine/Glycol/Hot oil Areas	Approx 4000 sq. ft	DKN-200	4000 sq feet	
50	SR	Servicing of Battery Limit Valves 8"/6"/4"x600		DKN-400	1	
51	M- EA201P- A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of New Sour Gas Cooler (hydratight required)	21-EA-201A	DKN-210	1	Stricking Spanner M46 (Qty 01),Strickin g Spanner M55 (Qty 01), Combinatio n Spanner M55 (Qty 01), CRANE 45Tons (Hydraulc Crane)
52	M- EA201P- B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of New Sour Gas Cooler (hydratight required)	21-EA-201B	DKN-210	1	Stricking Spanner M46 (Qty 01),Strickin g Spanner M55 (Qty 01), Combinatio n Spanner M55 (Qty 01), CRANE 45Tons (Hydraulc Crane)
53	M-EA202	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Gas Pre Cooler (hydratight required)	20-EA-202	DKN-200	1	Combinatio n Spanner M46 (Qty 01),Strickin g Spanner M55 (Qty 01), Combinatio n Spanner

I	1	I	1	1	1	M55 (Otr.
						M55 (Qty 01),
						CRANE
						45Tons
						(Hydraulc
						Crane)
						Comb.
						Spanners
						24/27 (Qty
						01),
						Stricking
						Spanner M24 (Orr
54	AM-		30-EA-301A	DKN-300		M34 (Qty 01),
34	EA301A		30-EA-301A	DKN-300		Combinatio
						n Spanner
						M36 (Qty
		Removal of Tube				01)
		Bundle/Hydrojet				Hammer
		Cleaning/Hydrotest of				5lb (Qty 01
		Feed GasExchanger			1	No)
						Comb.
						Spanners
						24/27 (Qty
						01), Stricking
						Spanner
						M34 (Qty
55	AM-		30-EA-301B	DKN-300		01),
	EA301B					Combinatio
						n Spanner
		Removal of Tube				M36 (Qty
		Bundle/Hydrojet				01)
		Cleaning/Hydrotest of				Hammer
		Feed Gas Exchanger			1	5lb (Qty 01 No)
		1 coa Gas Exchanger			1	Stricking
						Spanner
						M46 (Qty
						01),Strickin
						g Spanner
						M55 (Qty
						01),
						Combinatio n Spanner
56	M-EA302		30-EA-302	DKN-300		M55 (Qty
						01),
						CRANE
						45Tons
		Demond of Til				(Hydraulc
		Removal of Tube				Crane)
		Bundle/Hydrojet				Hammer 511 (O) O1
		Clysel Reflyx Cooler			1	5lb (Qty 01
		Glycol Reflux Cooler			l	No)

57	AM- 830FA1	Complete Cleaning of Hot Oil Expansion Vessel	830-FA-01	DKN-800	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01), Combinatio n Spanner M36 (Qty 01) Hammer 5lb (Qty 01 No)
58	M- EA401A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Amine Feed Bottom E xchanger	40-EA-401A	DKN-400	1	Stricking Spanner M32 (Qty 01), Combinatio n Spanner M32 (Qty 01), CRANE 60/55 Tons (Hydraulc Crane) Tube Bundle Extractor Hammer 5lb (Qty 02 No)
59	M- EA401B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Amine Feed Bottom E xchanger	40-EA-401B	DKN-400	1	Stricking Spanner M32 (Qty 01), Combinatio n Spanner M32 (Qty 01), CRANE 60/55 Tons (Hydraulc Crane) Tube Bundle Extractor Hammer 5lb (Qty 02 No)

60	M- EA402A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Amine Regenerator R eboiler	40-EA-402A	DKN-400	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M32 (Qty 01), CRANE 60/55 Tons (Hydraulc Crane) Tube Bundle Extractor Hammer 5lb (Qty 02 No)
61	M- EA402B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Amine Regenerator R eboiler	40-EA-402B	DKN-400	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M32 (Qty 01), CRANE 60/55 Tons (Hydraulc Crane) Tube Bundle Extractor Hammer 5lb (Qty 02 No)
62	M- EA201-A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Sour Gas Cooler	21-EA-201A	DKN-210	1	Stricking Spanner M46 (Qty 01),Strickin g Spanner M55 (Qty 01), Combinatio n Spanner M46 (Qty 01), CRANE 55 Tons (Crane)

					Hammer 51b (Qty 02 No)
63	M-DA201	Removal of Trays/Complete Cleaning of Amine Absorber (hydratight required)	20-DA-201	DKN-200	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M65 (Qty 01), Combinatio n Spanner M65 (Qty 01) Hammer 51b (Qty 02 1 No)
64	M-DA202	Removal of Trays/Complete Cleaning of Glycol Absorber	20-DA-202	DKN-200	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M65 (Qty 01), Combinatio n Spanner M65 (Qty 01) Hammer 5lb (Qty 02 1 No)
65	AM- DA203	Removal of Trays/Complete Cleaning of Glycol Tower	DA-203	DKN-210	Stricking Spanner M65 (Qty 01), Combinatio n Spanner M65 (Qty 01), Hydrojettin g Machine (Qty 01) Hammer 51b (Qty 02 1 No)
66	M-DA401	Removal of Trays/Complete Cleaning of Amine Regenarator T ower	40-DA-401	DKN-400	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 1 01),

						Hammer 5lb (Qty 02 No)
67	M-FA201	Complete Cleaning/removal of deimster of Sour Gas Knockout D rum (hydratight required)	20-FA-201	DKN-200	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01) Hammer 5lb (Qty 02 No)
68	M-FA202	Complete Cleaning/removal of deimster of Absorber Inlet Knock out Drum (hydratight required)	20-FA-202	DKN-200	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01) Hammer 5lb (Qty 02 No)
69	M-FA203	Complete Cleaning of Inlet Knockout Drum	21-FA-203	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01) Hammer 5lb (Qty 01 No)
70	M-FA204	Complete Cleaning of Outlet Knockout Dru m	21-FA-204	DKN-210	1	Stricking Spanner M65 (Qty 01) Hammer 5lb (Qty 01 No)

71	M-FA401	Complete Cleaning/removal of deimster of Amine Regenerator O verhead Drum	40-FA-401	DKN-400	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M36 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Stricking Spanner M46 (Qty 01) Hammer 5lb (Qty 01 1 No)	
72	M-FA403	Complete Cleaning of Rich Amine Flash Dru m	40-FA-403	DKN-400	Stricking Spanner M36 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01), Hammer 5lb (Qty 01 1 No)	
73	M-FA301	Complete Cleaning of Glycol Flash Drum	30-FA-301	DKN-300	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01) Hammer 5lb (Qty 01 1 No)	

74	M-FA302	Complete Cleaning of Glycol Surge Drum	30-FA-302	DKN-300	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01), Combinatio n Spanner M18 (Qty 01) Hammer 5lb (Qty 01 No)
75	M-FA303	Complete Cleaning of Glycol Reboiler Drum	30-FA- 303/304	DKN-300	1	Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), Hammer 5lb (Qty 01 No)
76	M- 110FA1	Complete Cleaning of MP Separator (hydratight required)	110-FA-01	DKN-210	1	Stricking Spanner M46 (Qty 01),Strickin g Spanner M60 (Qty 01) Hammer 5lb (Qty 01 No)
77	M- 110FA2	Complete Cleaning of LP Separator (hydratight required)	110-FA-02	DKN-210	1	Stricking Spanner M46 (Qty 01),Strickin g Spanner M65 (Qty 01) Hammer 5lb (Qty 01 No)
78	M- EA310B	Removal of Tube Bundle/Cleaning/Hydr otest of Glycol/Glycol Exchanger	EA-310B	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Combinatio n Spanner M18 (Qty 01),

79	M-BA313	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of	BA-313	DKN-210		CRANE 45 Tons (Crane) Hammer 5lb (Qty 01 No)	
80	AM- DA301	Complete Cleaning of Glycol Stripping	DA-301	DKN-300	1	Stricking Spanner M65 (Qty 01), Combinatio n Spanner M65 (Qty 01), Hydrojettin g Machine (Qty 01) Hammer 5lb (Qty 01	
81	SR	Column Servicing of N2 Header Isolating Valves/ NRVS (3" Class 150 06 Nos, 2" Class 150 04 Nos)		DKN-800	1	No)	
82	M- EC401-A	Complete Cleaning/Servicing of Lean Amine Solution Cooler	40-EC-401A	DKN-400	1		
83	M- EC401-B	Complete Cleaning/Servicing of Lean Amine Solution Cooler	40-EC-401B	DKN-400	1		
84	M- EC401-C	Complete Cleaning/Servicing of Lean Amine Solution Cooler	40-EC-401C	DKN-400	1		
85	M- EC401-D	Complete Cleaning/Servicing of Lean Amine Solution Cooler	40-EC-401D	DKN-400	1		
86	M- EC402-A	Complete Cleaning of Amine Regenerator O verhead Condenser	40-EC-402A	DKN-400	1		
87	M- EC402-B	Complete Cleaning of Amine Regenerator O verhead Condenser	40-EC-402B	DKN-400	1		

88	AM- 830FA1	Complete Cleaning of Hot Oil Expansion Vessel	830-FA-01	DKN-400	1	Comb. Spanners 24/27 (Qty 01), Comb. Spanners 30/32 (Qty 01) Hammer 5lb (Qty 01 No)
89	AM- GA403-A	Inspection/Maintenan ce of Lean Amine Pump	40-GA-403A	DKN-400	1	
90	AM- GA403-B	Inspection/Maintenan ce of Lean Amine Pump	40-GA-403B	DKN-400	1	
91	AM- GA401-A	Inspection/Maintenan ce of Amine Regenerator R eflux Pump	40-GA-401A	DKN-400	1	
92	AM- GA401-B	Inspection/Maintenan ce of Amine Regenerator R eflux Pump	40-GA-401B	DKN-400	1	
93	M- FD401-A	Complete Cleaning /Replacement of Filters of Cartridge Filter Skid	40-FD-401A	DKN-400	1	Combinatio n Spanner M18 (Qty 01) Hammer 5lb (Qty 02 No) Crane 30 Ton
94	M- FD401-B	Complete Cleaning /Replacement of Filters of Cartridge Filter Skid	40-FD-401B	DKN-400	1	Combinatio n Spanner M18 (Qty 01) Hammer 5lb (Qty 02 No) Crane 30 Ton
95	M-FD402	Complete Cleaning /Replacement of Filters of Charcoal Filter Skid	40-FD-402A	DKN-400	1	Combinatio n Spanner M38 (Qty 01), Combinatio n Spanner M41 (Qty 01), Hammer

96 97 98	AM- GA301A AM- GA301B AM- 830GA1- A	Inspection/Maintenan ce of Glycol Pump Inspection/Maintenan ce of Glycol Pump Inspection/Maintenan ce of Hot oil pump	30-GA-301A 30-GA-301B 830-GA-01A	DKN-300 DKN-300 DKN-800	1 1	51b (Qty 02 No) Crane 30 Ton
99	830GA1- B AM-	Inspection/Maintenan ce of Hot oil pump	830-GA-01B	DKN-800	1	
100	830GA1- C AM-	Inspection/Maintenan ce of Hot oil pump	830-GA-01C	DKN-800	1	
101	830GA2- A	Inspection/Maintenan ce of Hot oil pump	830-GA-02A	DKN-800	1	Comb
102	AM- 830GA2- B	Inspection/Maintenan ce of Hot oil pump	830-GA-02B	DKN-800	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01), Combinatio n Spanner M36 (Qty 01) Hammer 51b (Qty 02 No)
103	M-FA310	Complete Cleaning of Glycol Flush Drum	FA-310	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01), Combinatio n Spanner M36 (Qty 01) Hammer 5lb (Qty 02 No)
104	M-EA403	Removal of Tube Bundle/Cleaning/Hydr otest of Amine trim cooler (Hydratight required)	EA-403	DKN-400	1	Striking Spanner M115 (Qty 01), Hydraulic Bolt Tensioner

						(Qty 01)		
						CRANE		
						60/55 Tons		
						(Crane)		
						Tube		
						Bundle		
						Extractor		
						Hammer		
						5/7lb (Qty		
						02 No)		
						Combinatio		
						n Spanner		
						M18 (Qty		
	3.7					01)		
105	M-		30-FD-301A	DKN-300		Hammer		
105	FD301-A	Complete Cleaning	3012 30111	DIRI (300		5lb (Qty 01		
		/Replacement of				No)		
		Filters of				· · · · · · · · · · · · · · · · · · ·		
						Crane 30		
		Cartridge Filter Skid			1	Ton		
						Combinatio		
						n Spanner		
						M18 (Qty		
	M					01)		
106	M-		30-FD-301B	DKN-300		Hammer		
	FD301-B	Complete Cleaning				5lb (Qty 01		
		/Replacement of				No)		
		Filters of				Crane 30		
					1			
		Cartridge Filter Skid			1	Ton		
		Inspection/Maintenan						
107	AM-	ce of	31-GA-310A	DKN-310				
107	GA310A	Glycol Pump (Kimray	31-GA-310A	DKN-310				
					1			
		Inspection/Maintenan			1			
	43.6	=						
108	AM-	ce of	31-GA-310B	DKN-310				
100	GA310B	Glycol Pump (Kimray	31 G/1 310B	DIRIVSTO				
					1			
		Inspection/Maintenan						
	AM-	_						
109			31-GA-310C	DKN-310				
	GA310C	Glycol Pump (Kimray						
)			1			
		Inspection/Maintenan						
	AM-	ce of						
110	GA310D	Glycol Pump (Kimray	31-GA-310D	DKN-310				
	ORTION	Grycor Fump (Killiay						
)			1			
						Comb.		
						Spanners		
						24/27 (Qty		
						01),		
						Stricking		
						Spanner		
111	M-		31-EA-310A	DKN-210		M34 (Qty		
111	EA310A		31 LA-310A	DIM 1-210		01),		
		Removal of Tube				Combinatio		
		Bundle/Hydrojet						
		• •				n Spanner		
		Cleaning/Hydrotest of			1	M36 (Qty		
		Glycol/Glycol				01)		
L		Exchanger			1	Hammer		
	-	se 30 of 73 OCDCI Tende	D ' M		000 /01	2 /20 2 4000 /6	2001	

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						5lb (Qty 01 No)	
112	M- EA311A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Glycol/Glycol Exchanger	31-EA-311A	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01), Combinatio n Spanner M36 (Qty 01) Hammer 5lb (Qty 01 No)	
113	M- EA311B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Glycol/Glycol Exchanger	31-EA-311B	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01), Combinatio n Spanner M36 (Qty 01) Hammer 5lb (Qty 01 No)	
114	M- EA312A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Glycol/Glycol Exchanger	31-EA-312A	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01), Combinatio n Spanner M36 (Qty 01) Hammer 5lb (Qty 01 No)	
115	M- EA312B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Glycol/Glycol Exchanger	31-EA-312B	DKN-210	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M34 (Qty 01),	

116	SR	Servicing/replacement of isolating valves 06Nos 4"x600 of 20-	20-DA-201	DKN-400		Combinatio n Spanner M36 (Qty 01) Hammer 5lb (Qty 01 No)	
117	M-I- FA312	Complete Cleaning /Replacement of Filters of Charcoal Filter Skid at New Dehy	31-FA-312	DKN-210	1	Combinatio n Spanner M38 (Qty 01), Combinatio n Spanner M41 (Qty 01), Pipe Wrench set (Qty 01) Hammer 5lb (Qty 01 No)	
118	SR	Servicing/replacement of Isolating Valves at Amine/Dehydration Area (3/4" Class 1500 08 Nos, 1-1/2" Class 1500 06 Nos, 2" Class 600 20 Nos, 2" Class 900 12 Nos, 4" Class 600 04 Nos, 6" Class 600 06 Nos, 10" Class 150 04 Nos)		DKN-200	1		
119	M- SCF200- R	Removal of Scaffolding from Amine/Glycol/Hot oil Areas	Approx 5000 sq.ft.	DKN-200	5000 sq feet	5 ft pipe 40 nos, 10 ft pipe 150 nos, 20 ft pipe 100 Nos, Joints 800, Planks 150	
120	M- INS200-I	Installation of New/Old Insulation at Amine/Glycol/Hot oil Areas	Approx 5000 sq. ft	DKN-200	5000 sq feet		
		NGL/LPG/DPR Ar	ea Activities		1		
121	M- SCF600-P	Scaffolding at NGL/LPG/DPR Areas	Approx 2500 sq.ft.	DKN-600	2500 sq feet	5 ft pipe 40 nos, 10 ft pipe 100 nos, 20 ft pipe 80 Nos, Joints 500, Planks	

						100
122	M- INS600-R	Removal of Insulation at NGL/LPG/DPR Areas	Approx 6000 sq. ft	DKN-600	6000 sq feet	
123	M-FA601	Complete Cleaning of NGL Fractionator Fee d Drum	60-FA-601	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 51b (Qty 01 No)
124	M-FA602	Complete Cleaning of NGL Fractionator Ove rhead Drum	60-FA-602	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01) Hammer 5lb (Qty 01 No)
125	M-FA603	Complete Cleaning of De-Ethanizer Overhead D rum	60-FA-603	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No)
126	M-FA604	Complete Cleaning of De- Butanizer Overhead D rum	60-FA-604	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M46 (Qty

127	M-DA601	Removal of Trays/Complete Cleaning of NGL Fractionator To wer	60-DA-601	DKN-600	01), Combinatio n Spanner M46 (Qty 01) Hammer 5lb (Qty 01 No) Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01) Hammer 5lb (Qty 01 1 No)
128	M- EA601A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of NGL Feed Bottom Ex changer	60-EA-601A	DKN-600	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 02 No) Crane 30 1 Ton
129	M- EA601B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of NGL Feed Bottom Ex changer	60-EA-601B	DKN-600	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner 1 M32 (Qty

						01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 02 No) Crane 30 Ton
130	M- EA601C	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of NGL Feed Bottom Ex changer	60-EA-601C	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 02 No) Crane 30 Ton
131	SR	Installation of New Exchanger/Hydrotest of NGL Feed Bottom Exchanger	60-EA-601D	DKN-600	1	Crane 30 Ton
132	M-EA602	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of NGL Fractionator Bot tom Reboiler	60-EA-602	DKN-600	1	Stricking Spanner M55 (Qty 01), Combinatio n Spanner M46 (Qty 01), Stricking Spanner M46 (Qty 01), CRANE 55 Tons (Hydraulc Crane) Hammer 5lb (Qty 02 No)

133	M-EA603 AM- GA601-A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of NGL Fractionator Ov hd Condenser Inspection/Maintenan ce of NGL Fractionator Ref	60-EA-603 60-GA-601A	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 01 No) Crane 30 Ton	
	GA601-A	lux Pump			1		
135	AM- GA601-B	Inspection/Maintenan ce of NGL Fractionator Ref lux Pump	60-GA-601B	DKN-600	1		
136	M-EA604	Complete Cleaning of NGL Fractionator Bot tom Cooler	60-EA-604	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No) Crane 30 Ton	
137	M-	Complete Cleaning of	DA-2000	DKN-600	1		

	DA2000	NGL Stripping Colum					
138	M-EA606	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of De-Ethanizer Reboiler	60-EA-606	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON Hammer 51b (Qty 01 No) Crane 30 Ton	
139	M-EA608	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of De-Butanizer Reboiler	60-EA-608	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON Hammer 51b (Qty 01 No)	
140	M-EA609	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of De- Butanizer Bottom Coo ler/Shell replacement	60-EA-609	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M30 (Qty 01), Combinatio n Spanner	

						M30/32 (Qty 01), Stricking Spanner M32 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No) Crane 30 Ton
141	M-EA610	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of LPG Product Coole r	60-EA-610	DKN-600	1	
142	M-EA612	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of De- Butanizer(over head tr im cooler)	60-EA-612	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Combinatio n Spanner M30/32 (Qty 01) 30 Ton Crane Hammer 5lb (Qty 01 No)
143	M-FA504	Complete Cleaning of NGL Feed Drum	50-FA-504	DKN-500	1	Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No)
144	M-PA- 504	Inspection/Maintenan ce of MEG Package	PA-504	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Combinatio n Spanner M16 (Qty 01), Combinatio n Spanner M18 (Qty 01) Hammer 51b (Qty 01 No)

145	SR	Servicing/replacement of isolation & bypass valves at LPG/DPR areas (3/4" Class 800/1500 12 Nos, 2" Class 600 06 Nos, 3" Class 150 04 Nos, 6" Class 300/600 04 Nos)		DKN-500		
146	M- 806FA1	Complete Cleaning HP Fuel Gas Drum	806-FA-01	DKN-800	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No)
147	M- 806FA2	Complete Cleaning LP Fuel Gas Drum	806-FA-02	DKN-800	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No)
148	M-DA602	Complete dismantling of De-Ethanizer Tower, Removal/ Cleaning of Raschig rings	60-DA-602	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01), Stricking Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01), Combinatio n Spanner M60 (Qty 01), Combinatio n Spanner M46 (Qty

						01) Hammer 5lb (Qty 01 No) Crane 60/55 Ton Crane 30 Ton
149	M-DA603	Complete dismantling of De-Butanizer Tower, Removal/ Cleaning of Raschig rings	60-DA-603	DKN-600	1	Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No) Crane 60/55 Ton Crane 30 Ton
150	M-FA501	Complete Cleaning of Cold Separator Drum	50-FA-501	DKN-500	1	Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No)
151	M- EA501A	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Feed Gas- Off Gas Exchanger	50-EA-501A	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01

						No)	
152	M- EA501B	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Feed Gas- Off Gas Exchanger	50-EA-501B	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Forking Spanner M36 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No)	
153	M- EA501C	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Feed Gas- Off Gas Exchanger	50-EA-501C	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Forkk LIFTER-05 TON Hammer 5lb (Qty 01 No)	
154	M- EA501D	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Feed Gas- Off Gas Exchanger	50-EA-501D	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty	

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						01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), FORK LIFTER-05 TON Hammer 51b (Qty 01 No)	
155	M- EA501E	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Feed Gas- Off Gas Exchanger	50-EA-501E	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 51b (Qty 01 No)	
156	M- EA501F	Removal of Tube Bundle/Hydrojet Cleaning/Hydrotest of Feed Gas- Off Gas Exchanger	50-EA-501F	DKN-500	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 01 No)	
157	AM-	Inspection/Maintenan	60-GA-602A	DKN-600	1	,	

	GA602-A	ce of NGL Fractionator Ref lux Pump					
158	AM- GA602-B	Inspection/Maintenan ce of NGL Fractionator Ref lux Pump	60-GA-602B	DKN-600	1		
159	AM- GA603-A	Inspection/Maintenan ce of NGL Fractionator Ref lux Pump	60-GA-603A	DKN-600	1		
160	AM- GA603-B	Inspection/Maintenan ce of NGL Fractionator Ref lux Pump	60-GA-603B	DKN-600	1		
161	AM- PA501	Maintenance of Refrigeration package	PA-501	DKN-500	1		
162	AM- 911GA1- A	Inspection/Maintenan ce of LPG Loading Pump	911-GA-01A	DKN-910	1		
163	AM- 911GA1- B	Inspection/Maintenan ce of LPG Loading Pump	911-GA-01B	DKN-910	1		
164	AM- 910GA1- A	Inspection/Maintenan ce of Crude Oil Loading Pump	910-GA-01A	DKN-910	1		
165	AM- 910GA1- B	Inspection/Maintenan ce of Crude Oil Loading Pump	910-GA-01B	DKN-910	1		
166	M-EA611	Removal of Tube Bundle/Cleaning/Hydr otest of Lean Amine Cooler	60-EA-611	DKN-600	1	Comb. Spanners 24/27 (Qty 01), Stricking Spanner M32 (Qty 01), Combinatio n Spanner M36 (Qty 01), Stricking Spanner M36 (Qty 01), Hammer 5lb (Qty 01 No) Crane 30 Ton	
167	M-DA604	Complete Cleaning of NGL Fractionator OFF Gas Amine	60-DA-604	DKN-600	1	Stricking Spanner M50 (Qty 01), Combinatio	

168	M- SCF600- R	Removal of Scaffolding from NGL/LPG/DPR Areas Installation of New/	Approx 5000 sq.ft. Approx 6000	DKN-600	5000 sq feet 6000	n Spanner M50 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 01 No) 5 ft pipe 40 nos, 10 ft pipe 100 nos, 20 ft pipe 80 Nos, Joints 500, Planks 100	
169	INS600-I	Old Insulation at NGL/LPG/DPR Areas	sq. ft	DKN-600	sq feet		
		SRU-II/Turbine Ar	ea Activities				
170	M- SCF1900- P	Scaffolding at SRU-II	Approx 5000 sq.ft.	DKN-700	5000 sq feet	5 ft pipe 40 nos, 10 ft pipe 80 nos, 20 ft pipe 60 Nos, Joints 400, Planks	
171	M- INS1900- R	Removal of Insulation at SRU-II	Approx 5000 sq.ft.	DKN-700	5000 sq feet		
172	M- RD1900	Complete Cleaning/hydrotest of Sulphur Run Down Lines		DKN-1900	1	Crane 30 Ton	
173	SR	Removal/Cleaning/Ma intenance/Installation of Sulphur Pumps			2	Crane 30 Ton	
174	SR	Dismantling/Dechocki ng and cleaning of Sulphur Crosses		DKN-1900	1		
175	SR	Servicing/repairing of isolation valves (3/4" Class 800/1500 10 Nos, 10" Class 150 04 Nos)		DKN-1900	1		
176	SR	Replacement of Faulty steam traps (20 Nos)		DKN-1900	1		
177	M-D1902	Complete Cleaning of Blow Down Drum	D-5001	DKN-1900	1	Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01),	

178	M-D5002	Complete Cleaning of Condensate Flash Tank	D-5002	DKN-1900	1	CRANE 45 Tons (Hydraulc Crane) Hammer 5lb (Qty 01 No)	
179	M-D1901	Complete Cleaning of Acid Gas Scrubber	D-1901	DKN-1900	1	Comb. Spanners 30/32 (Qty 01), Combinatio n Spanner M32 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No)	
180	M- EC1901	Replacement/Complet e Cleaning of HP Steam Condenser	19-EC-1901	DKN-1900	1	Fork Lifter 05 Ton, Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No) Crane 30 Ton	
181	M- EC1902	Replacement/Complet e Cleaning of LP Steam Condenser	19-EC-1902	DKN-1900	1	Fork Lifter 05 Ton, Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01) Hammer 5lb (Qty 01 No) Crane 30 Ton	
182	AM- P5001-A	Inspection/Maintenan ce of HP Boiler Feed Water	19-P-5001A	DKN-1900	1		

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		Pump				
183	AM- P5001-B	Inspection/Maintenan ce of HP Boiler Feed Water Pump	19-P-5001B	DKN-1900	1	
184	SR	Rectification of gland packing of all steam s ervice valves		DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No)
185	M-D5003	Complete Cleaning of De-aerator	D-5003	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No)
186	AM- P5003-B	Inspection/Maintenan ce of Condensate Pump	19-P-5003B	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), Hammer 51b (Qty 01 No)

187	M- PA1904	Complete Cleaning of Tail Gas Thermal Oxidizer	PA-1904	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), Hammer 5lb (Qty 01 No)
188	SR	Pouring arm steam jac keted valves installati on		DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), Hammer 5lb (Qty 01 No)
189	SR	Foot valve replacemen t of cooling water stor age tank		DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No)
190	SR	Dismantling of valves 903/906/909		DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty

					01), FORK LIFTER-05 TON Hammer 51b (Qty 01 No)	
191	AM- 840GT-1	Maintenance of Gas Turbine-A (Air filters replacement, dampers servicing, refractory repairing of WHRU)	TB-5000-A	DKN-1900	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No)	
192	AM- 840GT-2	Maintenacne of Gas Turbine-B (Air filters replacement, dampers servicing, refractory repairing of WHRU)	ТВ-5000-В	DKN-800	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON Hammer 5lb (Qty 01 No)	
193	AM- SGT100	Maintenacne of Gas Turbine-C (Air filters replacement, dampers servicing, refractory repairing of WHRU)	SGT-100	DKN-300	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON- TCM Hammer 5lb (Qty 01 No)	

194	AM- P1905A	Inspection/Maintenan ce of Release Agent Pump	19-P-1905A	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON- TCM
195	AM- P1905B	Inspection/Maintenan ce of Release Agent Pump	19-P-1905B	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON-TCM
196	M-E1902	Dismantling/Removal/In stallation of Sulphur Condenser (Length 14435 mm, dia 2314 mm, weight 38 Tons) (Complete dismantling of installed sulphur condenser along with its inlet/outlet lines, Complete dismantling HP & LP steam condensers along with their associated lines, Dismantling of pipe racks and other items as per requirement) (Installation of new sulphur condenser and its inlet/outlet lines, HP & LP steam condensers and their associated lines, and other dismantled piping racks and items)	E-1902	DKN-1900	1	Crane 100 Ton (01 No) Crane 80 Ton (01 No) FORK LIFTER-05 TON Chains Blocks, slings, and other riggining tools as per rigging plan. Dismantlin g & Installation tools.
197	M-E1902	Complete Cleaning of Sulphur Condenser	E-1902	DKN-1900	1	magnet support with Dial Indicator, Comb.

						Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON- TCM
198	M-H1901	Complete Cleaning of Furnace	H-1901	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON- TCM
199	M-E1901	Complete Cleaning of Waste Heat Reclaimer	E-1901	DKN-1900	1	Magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON-TCM
200	M-R1901- A/B/C	Complete Cleaning of Reactor A/B/C	R-1901	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON-TCM
201	AM- P1903-A	Inspection/Maintenan ce of Sulphur Feed Pump	19-P-1903A	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27

						(Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON- TCM	
202	AM- P1903-B	Inspection/Maintenan ce of Sulphur Feed Pump	19-P-1903B	DKN-1900	1	magnet support with Dial Indicator, Comb. Spanner M24/27 (Qty 01, Combinatio n Spanner M18 (Qty 01), FORK LIFTER-05 TON-TCM	
203	SR	Conveyer belts alignm ent, roller greasing, fa ulty roller replacement of sulfur palletizing un it		DKN-1900	1		
204	AM- P1901-A	Inspection/Maintenan ce of Acid Gas Scrubber Pump	19-P-1901A	DKN-1900	1	Stricking Spanner M32 (Qty 01), Combinatio n Spanner M32 (Qty 01), FORK LIFTER-05 TON- TCM	
205	AM- P1901-B	Inspection/Maintenan ce of -Acid Gas Scrubber Pump	19-P-1901B	DKN-800	1	Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01), FORK LIFTER-05 TON- TCM	
206	AM- C1901-A	Inspection/Maintenan ce of Process Air Blower	19-C-1901A	DKN-800	1	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01), FORK LIFTER-05 TON- TCM	

207	AM- C1901-B	Inspection/Maintenan ce of Process Air Blower	19-C-1901B	DKN-1900	1	Stricking Spanner M36 (Qty 01), Combinatio n Spanner M36 (Qty 01), FORK LIFTER-05 TON- TCM
208	AM- P1902-A	Inspection/Maintenan ce of Sulphur Transfer Pump	19-P-1902A	DKN-1900	1	Stricking Spanner M32 (Qty 01), Combinatio n Spanner M32 (Qty 01), FORK LIFTER-05 TON- TCM, Magnet support with Dial Indicator
209	AM- P1902-B	Inspection/Maintenan ce of Sulphur Transfer Pump	19-P-1902B	DKN-1900	1	Stricking Spanner M50 (Qty 01), Combinatio n Spanner M50 (Qty 01), FORK LIFTER-05 TON- TCM, Magnet support with Dial Indicator
210	AM- P5002-A	Inspection/Maintenan ce of LP Boiler Feed Water Pump	19-P-5002A	DKN-800	1	Stricking Spanner M46 (Qty 01), Combinatio n Spanner M46 (Qty 01), FORK LIFTER-05 TON- TCM, Magnet support with Dial Indicator

211	AM- P5002-B	Inspection/Maintenan ce of LP Boiler Feed Water Pump	19-P-5002B	DKN-1900	1	Stricking Spanner M36 (Qty 01), Combinatio n Spanner M36 (Qty 01), FORK LIFTER-05 TON- TCM, Magnet support with Dial Indicator	
212	AM- P5003-A	Inspection/Maintenan ce of Condensate Pump	19-P-5003A	DKN-1900	1	Stricking Spanner M32 (Qty 01), Combinatio n Spanner M32 (Qty 01), FORK LIFTER-05 TON- TCM, Magnet support with Dial Indicator	
213	M- SCF1900- R	Removal of Scaffolding from SRU-II	Approx 1000 sq.ft.	DKN-700	1000 sq feet	5 ft pipe 40 nos, 10 ft pipe 80 nos, 20 ft pipe 60 Nos, Joints 400, Planks	
	M-	Installation of	Approx 7000		7000		
214	INS1900-	New/Old Insulation at	sq.ft.	DKN-700	sq		
	I	SRU-II		00)	feet		
		Fabrication Activities (To Fabrication jobs	nai Dia 111011 48	U 7)			
215	SR	related to NDT repairs against prelimenary reports of SGS.		DKN-Plant	300 dia inch		
216	SR	Fabrication/Replacem ent of Rich Amine Line (Existing line CS 10" Sch-STD to be replaced with SS 10" Sch-STD, Approx length: 120 metre) Approx Dia Inch: 350 (Dwg# PP/DKN/ISO/285/286	40-DA-401	DKN-400	350 dia inch		

217	SR	Fabrication of 04 Sulphur Seals for Old SRU (Material SS 12" Sch-40, Approx length: 40 metre) Approx Dia Inch:180 (Dwg#		DKN-700	180 dia inch		
218	SR	PP/DKN/M/508) Fabrication job for replacement of Acid gas flare tip	902-FA-05	DKN-910	40 dia inch		
219	SR	Fabrication job for replacement of Hydro carbon flare tip	902-FA-04	DKN-910	80 dia inch		
220	SR	Fabrication/Replacem ent of pilot/Ignition lines of Acid Gas Flare Stack (1" Sch-40, 1-1/2" Sch-40, Approx length 50 metre) Approx Dia Inch: 40	902-FA-05	DKN-910	40 dia inch		
221	SR	Fabrication/Replacem ent of pilot/Ignition lines of Hydrocarbon Flare Stack(1" Sch-40, 1-1/2" Sch-40, Appox length 80 metre) Approx Dia Inch: 50	902-FA-04	DKN-910	50 dia inch		
222	SR	Fabrication/Installatio n of EA-402(A) Vapor side isolation valves (12" Class 150), Approx Dia Inch: 24	40-EA-402A	DKN-400	24 dia inch		
223	SR	Fabrication/Installatio n of EA-402(B) Vapor side isolation valves (12" Class 150), Approx Dia Inch:24	40-EA-402B	DKN-400	24 dia inch		
224	SR	Fabrication/Replacem ent of lean Amine Line from outlet of EA-401 to inlet of GA-403 (10" Sch- STD, Approx length: 80 metre), Approx Dia Inch: 160 (Dwg# PP/DKN/ISO/588)	40-EA-401	DKN-400	160 dia inch		
225	SR	Fabrication/Provision of Isolation valves at Inlet/Outlets lines of EA-403 (10" Class 900), Approx Dia	40-EA-403	DKN-400	40 dia inch		

		Inch: 40					
226	SR	Platforms at Charcoal filter skid	FD-402-A	DKN-400	20 dia inch		
227	SR	Platform at Reco refrigeration package	PA-501	DKN-500	20 dia inch		
228	SR	Platform at FA-202 for valves operation	FA-202`	DKN-200	20 dia inch		
229	SR	Replacement of MP/HP drain line (2" sch 80)		DKN-110	40 dia inch		
230	SR	Modification of Bypass Line 806-HC- 001-2"-A2 (Dwg# PP- DKN-ISO-641)		DKN-600	55 dia inch		
231	SR	Modification of Bypass Line 806-HC- 001-2"-A2 (Dwg#PP- DKN-ISO-642)		DKN-600	55 dia inch		
232	SR	Tie in existing cooling water return line 4" to LP Flare Header (Dwg# PP-DKN-ISO-646)			150 dia inch		
233	SR	Treated gas from EA- 202 to HP Flare Header (Dwg#PP- DKN-ISO-647)		DKN-200	85 dia inch		
234	SR	Lean Amine Bypass Line to GA 403 A/B (Dwg# PP-DKN-ISO- 648)		DKN-400	250 dia inch		
235	SR	Existing Line 100-V-21018 to Existing Line HP Flare Header (Dwg# PP-DKN-ISO-649)		DKN-100	170 dia inch		
236	SR	Install PSV at line No. 100-HC-201-1"-A2 to 902-BD-206-2"-A3 (Dwg# PP-DKN-ISO- 650)		DKN-100	50 dia inch		
237	SR	Pressure Vaccum Safety Valve at 830- FB-01 (Dwg# PP- DKN-ISO-651)		DKN-800	40 dia inch		
238	SR	Nitrogen Purging Line to 830-FB-01 (Dwg# PP-DKN-ISO-652)		DKN-800	140 dia inch		

239	SR	Bypass Line 6" on Sale Gas Line 500- TG-006-6"-D1, (Dwg# PP-DKN-ISO- 653)		DKN-500	100 dia inch	
240	SR	Installation of 911- PSV-11 (911-FA-01)	911-FA-01	DKN-900	140 dia inch	
241	SR	Installation of 911- PSV-12 (911-FA-02)	911-FA-02	DKN-900	140 dia inch	
242	SR	Installation of 911- PSV-13 (911-FA-03)	911-FA-03	DKN-900	140 dia inch	
243	SR	Installation of 911- PSV-14 (911-FA-04)	911-FA-04	DKN-900	dia inch	
244	SR	Fabrication of header for water sprinkling and foaming system	910-FB-1-5	DKN-910	200 dia inch	
245	SR	Welding of end plates at auxiliary boiler	PA-704	DKN-800	40 dia inch	
246	SR	Fire hydrant at slug catcher		DKN-100	80 dia inch	
247	SR	Provide new raw water line near soghri line heater		DKN-800	30 dia inch	
248	SR	Relocation of lines at API pit		DKN-800	20 dia inch	
249	SR	Fabrication of flanges to install level transmitter (100-LT- 01)	100-FA-01	DKN-100	8 dia inch	
250	SR	Fabrication of flanges to install level transmitter (100-LT- 02)	100-FA-01	DKN-100	8 dia inch	
251	SR	Fabrication of flanges to install level transmitter (100-LT- 03)	100-FA-02	DKN-100	8 dia inch	
252	SR	Fabrication of flanges to install level transmitter (100-LT- 04)	100-FA-02	DKN-100	8 dia inch	
253	SR	Fabrication of flanges to install level transmitter (100-LT- 05)	100-FA-03	DKN-100	8 dia inch	
254	SR	Fabrication of flanges to install level transmitter (100-LT-	100-FA-03	DKN-100	8 dia inch	

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		06)					ı
255	SR	Fabrication of flanges to install level transmitter (100-LT- 07)	100-FA-04	DKN-100	8 dia inch		
256	SR	Fabrication of flanges to install level transmitter (100-LT- 08)	100-FA-06	DKN-100	8 dia inch		
257	SR	Fabrication of flanges to install level transmitter (100-LT- 09)	100-FA-06	DKN-100	8 dia inch		
258	SR	Fabrication of flanges to install level transmitter (100-LT- 15)	100-FB-01	DKN-100	8 dia inch		
259	SR	Fabrication of flanges to install level transmitter (100-LT- 16)	100-FB-02	DKN-100	8 dia inch		
260	SR	Fabrication of flanges to install level transmitter (100-LT- 17)	100-FB-03	DKN-100	8 dia inch		
261	SR	Fabrication of flanges to install level transmitter (20-LT-01)	FA-201	DKN-200	8 dia inch		
262	SR	Fabrication of flanges to install level transmitter (20-LT-04)	FA-202`	DKN-200	8 dia inch		
263	SR	Fabrication of flanges to install level transmitter (20-LT-04)	FA-202`	DKN-200	8 dia inch		
264	SR	Fabrication of flanges to install level transmitter (20-LT-05)	FA-202`	DKN-200	8 dia inch		
265	SR	Fabrication of flanges to install level transmitter (20-LT-06)	DA-202	DKN-200	8 dia inch		
266	SR	Fabrication of flanges to install level transmitter (30-LT-01)	FA-301	DKN-300	8 dia inch		
267	SR	Fabrication of flanges to install level transmitter (60-LT- 2000A)	DA-2000	DKN-600	8 dia inch		
268	SR	Fabrication of flanges to install level transmitter (60-LT- 2000B)	DA-2000	DKN-600	8 dia inch		

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269	SR	Fabrication of flanges to install level transmitter (910-LT-	910-FB-01	DVN 010	8 dia inch			
		01)		DKN-910				
270	SR	Fabrication of flanges to install level transmitter (910-LT- 02)	910-FB-02	DKN-910	8 dia inch			
271	SR	Fabrication of flanges to install level transmitter (910-LT- 03)	910-FB-03	DKN-910	8 dia inch			
272	SR	Fabrication of flanges to install level transmitter (910-LT- 04)	910-FB-04	DKN-910	8 dia inch			
273	SR	Fabrication of flanges to install level transmitter (910-LT- 05)	910-FB-05	DKN-910	8 dia inch			
274	SR	Fabrication of flanges to install level transmitter (830-LT- 02)	830-FA-02	DKN-800	8 dia inch			
275	SR	Fabrication of flanges to install temperature transmitter (830-TT-05)	830-FA-02	DKN-800	8 dia inch			
276	SR	Fabrication of flanges to install temperature transmitter (TT-05)		DKN-700	8 dia inch			
277	SR	Fabrication of flanges to install temperature transmitter (TT-7-2)		DKN-700	8 dia inch			
278	SR	Fabrication of flanges to install temperature transmitter (TT-7-11)		DKN-700	8 dia inch			
279	SR	Fabrication of flanges to install temperature transmitter (TT-7-17)		DKN-700	8 dia inch			
280	SR	Fabrication job at hot oil area to install pressure transmitter (830-PT-07)		DKN-800	8 dia inch			
281	SR	Fabrication job at hot oil area to install pressure transmitter (PIC-51)	_	DKN-700	8 dia inch			
282	SR	Fabrication job at separator area to install pressure transmitter (100-PT-06)		DKN-100	8 dia inch			

283	SR	Fabrication jobs at LPG storage area to install pressure transmitter Tag No. 911-PT-01		DKN-911	8 dia inch		
284	SR	Fabrication jobs at LPG storage area to install pressure transmitter Tag No. 911-PT-02		DKN-911	8 dia inch		
285	SR	Fabrication jobs at LPG storage area to install pressure transmitter Tag No. 911-PT-03		DKN-911	8 dia inch		
286	SR	Fabrication jobs at LPG storage area to install pressure transmitter Tag No. 911-PT-04		DKN-911	8 dia inch		
287	SR	Fabrication jobs at old SRU to install flow transmitter Tag No. FT-01		DKN-700	8 dia inch		
288	SR	Fabrication jobs at DPR area to install flow transmitter Tag No. 50-FT-15		DKN-500	8 dia inch		
289	SR	Fabrication jobs at NGL storage area to install flow transmitter Tag No. 910-FT-01		DKN-910	12 dia inch		
290	SR	Fabrication of flanges to install flow element tag no. 50-FE-15 at DPR area		DKN-500	20 dia inch		
291	SR	Fabrication of flanges and cutting jobs to install 100-ESDV-02 at separator area		DKN-100	8 dia inch		
292	SR	Fabrication of flanges and cutting jobs to install 806-LCV-02 at utilities area		DKN-800	8 dia inch		
293	SR	Fabrication of flanges and cutting jobs to install 806-LCV-01 at utilities area		DKN-800	8 dia inch		
294	SR	Fabrication of flanges and cutting jobs to install level transmitter Tag No. 911-LT-02	911-FA-02	DKN-911	30 dia inch		

								_
		Slug catcher upstream			4.0			
20.5	a	PCV installation from			40			
295	SR	SDV upstream			dia			
		towards flare line			inch			
		Soghri slug catcher						
		water side line			150			
296	SR				dia			
		replacement from 2"			inch			
		to 4" upto API pit area						
		Gas breather						
		fabrication and			30			
297	SR	installation at water			dia			
291	SK	side line end of slug			inch			
		catcher at API pit			IIICII			
		area.						
		2" degaser line			40			
298	SR	replacement at			dia			
270	Sit	separator area.			inch			
		-			men			
		Replacement of FA-			80			
299	SR	501 lines, highlighted			dia			
		in NDT reprt of ATA-			inch			
		2020.						
		Replacement of FA-			80			
300	SR	504 lines, highlighted			dia			
300	SIX	in NDT reprt of ATA-			inch			
		2020.			IIICII			
		Replacement of FA-						
		603 lines, highlighted			80			
301	SR	in NDT reprt of ATA-			dia			
		2020.			inch			
		Miscellaneous A	otivities					
	***			iritiaa)				
	I VV	ater Supply Network (Wa	ter Supply Acu	(vittes)	l			
		Complete						
	M-	Cleaning/Repair of						
302	1100R1	Water Tank		DKN-1100				
		Reservior-A at River						
		Indus			1			
		Complete						
	3.6	Cleaning/Repair of						
303	M-	Water Tank		DKN-1100				
	1100R2	Reservior-B at River						
		Indus			1			
		Complete			_			
	M-	Cleaning/Repair of						
304	1100R4			DKN-1150				
	1100104				1			
		Dakhni Plant			1			
		Complete						
305	M-	Cleaning/Repair of		DKN-1150				
	1100R5	Water Tank-B at		2111, 1130				
		Dakhni Plant			1			
306	AM-	General Cleaning of	1100-CE-01	DKN 1100				
300	1100-CE1	Caterpillar Engine	1100-CE-01	DKN-1100	1			
207	AM-	General Cleaning of	1100 CE 02	DIM 1100				
307	1100-CE2	Caterpillar Engine	1100-CE-02	DKN-1100	1			
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308	AM- 1100-PE- 01	General Cleaning of Perkins Engine	1100-PE-01	DKN-1100	1			
309	AM- 1100-PE- 02	General Cleaning of Perkins Engine	1100-PE-02	DKN-1100	1			
		Generator Activities (Tra	nsport Activiti	es)				
		General Cleaning of	on por virgory res					
310	AM- 800GN5	Emergency Generator- CAT 137 KVA	800-GN-05	DKN-800	1			
311	AM- 800GN3	General Cleaning of Emergency Generator- Cummins 307 KVA	800-GN-03	DKN-800	1			
312	AM- 800GN2	General Cleaning of Emergency Generator- Cummins 307 KVA	800-GN-02	DKN-800	1			
	R	Refractory/Painting Activit	ties (Civil Activ	ities)				
313	C- DKN800	Refractory Repair of Turbines WHRU	(DKN- PLANT	1			
314	C- DKN1900	Refractory Repair of Furnace, Incinerator, Reclaimer, Auxiliary Boilers	E-1901	DKN-1900	1			
315	M- PAINT10 0	Painting of Piping and Equipments at Separator Area	Approx 10000 sq.ft.	DKN-100	1000 0 sq feet			
316	M- PAINT20 0	Painting of Piping and Equipments at Amine/Glycol/Hot oil Areas	Approx 10000 sq.ft.	DKN-200	1000 0 sq feet			
317	M- PAINT60 0	Painting of Piping and Equipments at NGL/LPG/DPR Areas	Approx 15000 sq.ft.	DKN-600	1500 0 sq feet			
318	M- PAINT19 00	Painting of Piping and Equipments at SRU-II	Approx 20000 sq.ft.	DKN-700	2000 0 sq feet			
		Process Acti	vities					
319	P-R- 1901A	Removal of catalyst and charging of New Catalyst in Reactor A/B/C						
320	C-CD- DKN801	Complete Cleaning of Cooling towers (06 Nos Cooling Towers)	801-CT- 01A-F	DKN-800	6			
321	C-CD- DKN100	Complete Cleaning of Closed Drains & Drai n Trenches of Separat or Area		DKN-100	1			
322	C-CD- DKN1900	Complete Cleaning of Closed Drains & Drai n Trenches of SRU-II		DKN-1900	1			
323	C-CD- DKN700	Complete Cleaning of Closed Drains & Drai		DKN-700	1			

		n Trenches of Old SR						
		U Complete Cleaning of						
	C CD	Complete Cleaning of Closed Drains & Drai						
324	C-CD- DKN911	n Trenches of LPG St		DKN-911				
	DIXIVIT	orage Area			1			
		Complete Cleaning of			1			
	C-CD-	Closed Drains & Drai						
325	DKN910	n Trenches of NGL St		DKN-910				
	DICIVITO	orage Area			1			
		Complete Cleaning of			1			
	C-CD-	Closed Drains & Drai						
326	DKN600	n Trenches of NGL Ar		DKN-600				
	Dirivooo	ea			1			
		Complete Cleaning of			1			
	C-CD-	Closed drains & drain						
327	DKN300	trenches of glycol		DKN-300				
	2111 (200	regeneration area.			1			
		Complete Cleaning of			1			
	C-CD-	Closed drains & drain						
328	DKN800	trenches of utilities		DKN-800				
		area.			1			
		Complete Cleaning of			-			
	C-CD-	Closed Drains & Drai						
329	DKN400	n Trenches of Amine		DKN-400				
		Regeneration Area			1			
		Complete Cleaning of						
220	C-CD-	Closed Drains & Drai		D. Y. Y. G. G. G.				
330	DKN200	n Trenches of Gas Ab		DKN-200				
		sorption Area			1			
221	CD	Complete Cleaning of		DIZNI 000				
331	SR	Neutralization pit.		DKN-800	1			
		Instrument air						
332		compressor desiccent		DKN-800				
	SR	replacement			2			
			Instrument Ac	<u>tivities</u>				
ļ	Dismantling,	Shifting of Valves to work	shop, Inspecti	on, Servicing	& Clean	ing, Part Repl	lacemen	ı <u>t /</u>
lapp		<u>ining, Box Up, Hydro Test</u>						<u> Faken</u>
		e and Check for tightening	<u>g of below ment</u>	tioned Control	l Valves.	ESDVs And	PSVs,	
333	I-20-PSV- 01	Annual Maintenance - Pressure Safety Valve	20-PSV-01	DKN-200	1	2" H 3"		
	I-20-PSV-	Annual Maintenance -	20-1 5 V -U1					
334	02	Pressure Safety Valve	20-PSV-02	DKN-200	1	2" H 3"		
22.5	I-20-PSV-	Annual Maintenance -	2012 / 02	D.V.V. 200	_	41175 011		
335	03	Pressure Safety Valve	20-PSV-03	DKN-200	1	1" D 2"		
226	I-20-PSV-	Annual Maintenance -		DKN 300	1	1" D 2"		
336	04	Pressure Safety Valve	20-PSV-04	DKN-200	1	1" D 2"		
337	I-20-PSV-	Annual Maintenance -		DKN-200	1	1-1/2" D 2"		
	05	Pressure Safety Valve	20-PSV-05	2111, 200	1			
338	I-20-PSV-	Annual Maintenance -	20 DCM 06	DKN-200	1	1-1/2" D 2"		
	06 I-20-PSV-	Pressure Safety Valve Annual Maintenance -	20-PSV-06					
339		Pressure Safety Valve	20-PSV-07	DKN-200	1	6" R 8"		
1	U /			i		i	ı	1
340	07 I-20-PSV-	Annual Maintenance -	20-PSV-08	DKN-200	1	6" R 8"		

	08	Pressure Safety Valve					
341	I-30-PSV- 01	Annual Maintenance - Pressure Safety Valve	30-PSV-01	DKN-300	1	1-1/2" F 2"	
342	I-30-PSV- 02	Annual Maintenance - Pressure Safety Valve	30-PSV-02	DKN-300	1	1-1/2" F 2"	
343	I-30-PSV- 03	Annual Maintenance - Pressure Safety Valve	30-PSV-03	DKN-300	1	N/A	
344	I-30-PSV- 04	Annual Maintenance - Pressure Safety Valve	30-PSV-04	DKN-300	1	N/A	
345	I-30-PSV- 05	Annual Maintenance - Pressure Safety Valve	30-PSV-05	DKN-300	1	1-1/2" F 2"	
346	I-30-PSV- 06	Annual Maintenance - Pressure Safety Valve	30-PSV-06	DKN-300	1	1-1/2" F 2"	
347	I-30-PSV- 07	Annual Maintenance - Pressure Safety Valve	30-PSV-07	DKN-300	1	1/2" X 2- 7/16	
348	I-30-PSV- 08	Annual Maintenance - Pressure Safety Valve	30-PSV-08	DKN-300	1	1/2" X 2- 7/16	
349	I-30-PSV- 09	Annual Maintenance - Pressure Safety Valve	30-PSV-09	DKN-300	1	N/A	
350	I-110- PSV-101	Annual Maintenance - Pressure Safety Valve	110-PSV- 101	DKN-110	1	2"	
351	I-40-PSV- 08	Annual Maintenance - Pressure Safety Valve	40-PSV-08	DKN-400	1	1-1/2" H 3"	
352	I-40-PSV- 09	Annual Maintenance - Pressure Safety Valve	40-PSV-09	DKN-400	1	1-1/2" H 3"	
353	I-40-PSV- 10	Annual Maintenance - Pressure Safety Valve	40-PSV-10	DKN-400	1		
354	I-40-PSV- 11	Annual Maintenance - Pressure Safety Valve	40-PSV-11	DKN-400	1	1-1/2" D 2"	
355	I-40-PSV- 12	Annual Maintenance - Pressure Safety Valve	40-PSV-12	DKN-400	1	1-1/2" D 2"	
356	I-40-PSV- 13	Annual Maintenance - Pressure Safety Valve	40-PSV-13	DKN-400	1	4" M 6"	
357	I-50-PSV- 01	Annual Maintenance - Pressure Safety Valve	50-PSV-01	DKN-500	1	1" D 2"	
358	I-50-PSV- 02	Annual Maintenance - Pressure Safety Valve	50-PSV-02	DKN-500	1	1" D 2"	
359	I-50-PSV- 03	Annual Maintenance - Pressure Safety Valve	50-PSV-03	DKN-500	1	1" D 2"	
360	I-50-PSV- 04	Annual Maintenance - Pressure Safety Valve	50-PSV-04	DKN-500	1	1" D 2"	
361	I-50-PSV- 05	Annual Maintenance - Pressure Safety Valve	50-PSV-05	DKN-500	1	1" D 2"	
362	I-50-PSV- 06	Annual Maintenance - Pressure Safety Valve	50-PSV-06	DKN-500	1	1" D 2"	
363	I-50-PSV- 07	Annual Maintenance - Pressure Safety Valve	50-PSV-07	DKN-500	1	N/A	
364	I-50-PSV- 08	Annual Maintenance - Pressure Safety Valve	50-PSV-08	DKN-500	1	N/A	
365	I-50-PSV- 09	Annual Maintenance - Pressure Safety Valve	50-PSV-09	DKN-500	1	N/A	
366	I-50-PSV- 10	Annual Maintenance - Pressure Safety Valve	50-PSV-10	DKN-500	1	N/A	
367	I-50-PSV- 11	Annual Maintenance - Pressure Safety Valve	50-PSV-11	DKN-500	1	N/A	
368	I-50-PSV- 21	Annual Maintenance - Pressure Safety Valve	50-PSV-21	DKN-500	1	3" K 4"	

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369	I-50-PSV- 22	Annual Maintenance - Pressure Safety Valve	50-PSV-22	DKN-500	1	3" K 4"	
370	I-50-PSV- 23	Annual Maintenance - Pressure Safety Valve	50-PSV-23	DKN-500	1	1" X 1- 11"/2	
371	I-50-PSV- 24	Annual Maintenance - Pressure Safety Valve	50-PSV-24	DKN-500	1	1" X 1- 11"/4	
372	I-50-PSV- 25	Annual Maintenance - Pressure Safety Valve	50-PSV-25	DKN-500	1	1" X 1/2"	
373	I-50-PSV- 26	Annual Maintenance - Pressure Safety Valve	50-PSV-26	DKN-500	1	1" X 1/2"	
374	I-60-PSV- 01	Annual Maintenance - Pressure Safety Valve	60-PSV-01	DKN-600	1	1-1/2" F 2"	
375	I-60-PSV- 02	Annual Maintenance - Pressure Safety Valve	60-PSV-02	DKN-600	1	1-1/2" F 2"	
376	I-60-PSV- 03	Annual Maintenance - Pressure Safety Valve	60-PSV-03	DKN-600	1	3" K 4"	
377	I-60-PSV- 04	Annual Maintenance - Pressure Safety Valve	60-PSV-04	DKN-600	1	3" K 4"	
378	I-60-PSV- 05	Annual Maintenance - Pressure Safety Valve	60-PSV-05	DKN-600	1	1-1/2" F 2"	
379	I-60-PSV- 06	Annual Maintenance - Pressure Safety Valve	60-PSV-06	DKN-600	1	1-1/2" F 2"	
380	I-60-PSV- 07	Annual Maintenance - Pressure Safety Valve	60-PSV-07	DKN-600	1	1-1/2" F 2"	
381	I-60-PSV- 08	Annual Maintenance - Pressure Safety Valve	60-PSV-08	DKN-600	1	1-1/2" F 2"	
382	I-60-PSV- 09	Annual Maintenance - Pressure Safety Valve	60-PSV-09	DKN-600	1	2" H 3"	
383	I-60-PSV- 10	Annual Maintenance - Pressure Safety Valve	60-PSV-10	DKN-600	1	2" H 3"	
384	I-100- PSV-01	Annual maintenance - Pressure Safety Valve	100-PSV-01	DKN-100	1	2" H 3"	
385	I-100- PSV-02	Annual maintenance - Pressure Safety Valve	100-PSV-02	DKN-100		2" H 3"	
386	I-100- PSV-03	Annual maintenance - Pressure Safety Valve	100-PSV-02	DKN-100		2" H 3"	
387	I-100- PSV-04	Annual maintenance - Pressure Safety Valve	100-PSV-04	DKN-100		2" J 3"	
388	I-100- PSV-05	Annual maintenance - Pressure Safety Valve	100-PSV-05	DKN-100		3/4" X 1"	
389	I-100- PSV-06	Annual maintenance - Pressure Safety Valve	100-PSV-06	DKN-100		3/4" X 1"	
390	I-100- PSV-07	Annual maintenance - Pressure Safety Valve	100-PSV-07	DKN-100		3/4" X 1"	
391	I-902- PSV-01	Annual Maintenance- Pressure Safety Valve	902-PSV-01	DKN-902	1	N/A	
392	I-902- PSV-02	Annual Maintenance- Pressure Safety Valve	902-PSV-02	DKN-902	1	N/A	
393	I-902- PSV-03	Annual Maintenance- Pressure Safety Valve	902-PSV-03	DKN-902	1	3/4" X 1"	
394	I-902- PSV-04	Annual Maintenance- Pressure Safety Valve	902-PSV-04	DKN-902	1	N/A	
395	I-903- PSV-01	Annual Maintenance- Pressure Safety Valve	903-PSV-01	DKN-903	1	1-1/2" G 1- 1/2"	
396	I-120- PSV-01	Annual Maintenance- Pressure Safety Valve	120-PSV-01	DKN-120	1	2" G 3"	
397	I-120-	Annual Maintenance-	120-PSV-02	DKN-120	1	2" G 3"	

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	PSV-02	Pressure Safety Valve					
398	I-120- PSV-03	Annual Maintenance- Pressure Safety Valve	120-PSV-03	DKN-120	1	2" G 3"	
399	I-120- PSV-04	Annual Maintenance- Pressure Safety Valve	120-PSV-04	DKN-120	1	2" G 3"	
400	I-120- PSV-05	Annual Maintenance- Pressure Safety Valve	120-PSV-05	DKN-120	1	2" G 3"	
401	I-806- PSV-01	Annual Maintenance- Pressure Safety Valve	806-PSV-01	DKN-806	1	1-1/2" H 3"	
402	I-806- PSV-02	Annual Maintenance- Pressure Safety Valve	806-PSV-02	DKN-806	1	3" K 4"	
403	I-830- PSV-01	Annual Maintenance- Pressure Safety Valve	830-PSV-01	DKN-830	1	4" L 6"	
404	I-911- PSV-01	Annual Maintenance- Pressure Safety Valve	911-PSV-01	DKN-911	1	1" E 2"	
405	I-911- PSV-02	Annual Maintenance- Pressure Safety Valve	911-PSV-02	DKN-911	1	1" E 2"	
406	I-911- PSV-03	Annual Maintenance- Pressure Safety Valve	911-PSV-02 911-PSV-03	DKN-911	1	1" E 2"	
407	I-911- PSV-04	Annual Maintenance- Pressure Safety Valve	911-PSV-03	DKN-911	1	1" E 2"	
408	I-911- PSV-05	Annual Maintenance- Pressure Safety Valve	911-PSV-05	DKN-911	1	3" K 4"	
409	I-911- PSV-06	Annual Maintenance- Pressure Safety Valve	911-PSV-06	DKN-911	1	3" K 4"	
410	I-911- PSV-07	Annual Maintenance- Pressure Safety Valve	911-PSV-07	DKN-911	1	3" K 4"	
411	I-911- PSV-08	Annual Maintenance- Pressure Safety Valve	911-PSV-08	DKN-911	1	3" K 4"	
412	I-911- PSV-09	Annual Maintenance- Pressure Safety Valve	911-PSV-09	DKN-911	1	3" K 4"	
413	I-911- PSV-10	Annual Maintenance- Pressure Safety Valve	911-PSV-10	DKN-911	1	3" K 4"	
414	I-911- PSV-11	Annual Maintenance- Pressure Safety Valve	911-PSV-11	DKN-911	1	3" K 4"	
415	I-19-PSV- 0903	Annual Maintenance- Pressure Safety Valve	19-PSV- 0903	DKN-210	1	1.5"	
416	I-19-PSV- 0904	Annual Maintenance- Pressure Safety Valve	19-PSV- 0904	DKN-210	1	1"	
417	I-19-PSV- 0905	Annual Maintenance- Pressure Safety Valve	19-PSV- 0905	DKN-210	1	2"	
418	I-19-PSV- 0906	Annual Maintenance- Pressure Safety Valve	19-PSV- 0906	DKN-210	1	2"	
419	I-19-PSV- 0908	Annual Maintenance- Pressure Safety Valve	19-PSV- 0908	DKN-210	1	1"	
420	I-19-PSV- 0909	Annual Maintenance- Pressure Safety Valve	19-PSV- 0909	DKN-210	1	4"	
421	I-20- HCV-01	Annual Maintenance- Pressure Control Valve	20-HCV-01	DKN-200	1	3"	
422	I-20- LCV-01	Annual Maintenance- Level Control Valve	20-LCV-01	DKN-200	1	1"	
423	I-20- LCV-02	Annual Maintenance- Level Control Valve	20-LCV-02	DKN-200	1	1"	
424	I-20- LCV-03- A	Annual Maintenance- Level Control Valve	20-LCV-03- A	DKN-200	1	4"	
425	I-20-	Annual Maintenance-	20-LCV-03-	DKN-200	1	4"	

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	LCV-03-	Level Control Valve	В				
426	I-20- LCV-06	Annual Maintenance- Level Control Valve	20-LCV-06	DKN-200	1	1"	
427	I-30- FCV-01	Annual Maintenance- Flow Control Valve	30-FCV-01	DKN-300	1	1"	
428	I-30-XV- 01	Annual Maintenance- Sdhut Down Valve	30-XV-01	DKN-300	1	1"	
429	I-30- PCV-01	Annual Maintenance- Pressure Control Valve	30-PCV-01	DKN-300	1	1"	
430	I-30- PCV-03	Annual Maintenance- Pressure Control Valve	30-PCV-03	DKN-300	1	1"	
431	I-30- PCV-04	Annual Maintenance- Pressure Control Valve	30-PCV-04	DKN-300	1	2"	
432	I-30- LCV-01	Annual Maintenance- Level Control Valve	30-LCV-01	DKN-300	1	1"	
433	I-30- LCV-02	Annual Maintenance- Level Control Valve	30-LCV-02	DKN-300	1	1"	
434	I-40- FCV-01	Annual Maintenance- Flow Control Valve	40-FCV-01	DKN-400	1	4"	
435	I-40- FCV-02	Annual Maintenance- Flow Control Valve	40-FCV-02	DKN-400	1	1.2"	
436	I-40- FCV-03	Annual Maintenance- Flow Control Valve	40-FCV-03	DKN-400	1	10"	
437	I-40- FCV-04	Annual Maintenance- Flow Control Valve	40-FCV-04	DKN-400	1	1"	
438	I-40- FCV-05	Annual Maintenance- Flow Control Valve	40-FCV-05	DKN-400	1	1"	
439	I-40- FCV-10	Annual Maintenance- Flow Control Valve	40-FCV-05	DKN-400	1	4"	
440	I-40- LCV-01	Annual Maintenance- Level Control Valve	40-LCV-01	DKN-400	1	4"	
441	I-40- PCV-01	Annual Maintenance- Level Control Valve	40-LCV-01	DKN-400	1	1-1/2"	
442	I-40- PCV-02A	Annual Maintenance- Pressure Control Valve	40-PCV-02- A	DKN-400	1	6"	
443	I-40- PCV-02B	Annual Maintenance- Pressure Control Valve	40-PCV-02B	DKN-400	1	6"	
444	I-40- PCV-04	Annual Maintenance- Pressure Control Valve	40-PCV-04	DKN-400	1	1"	
445	I-40- PCV-05	Annual Maintenance- Pressure Control Valve	40-PCV-05	DKN-400	1	1"	
446	I-40- SDV-01	Annual Maintenance- Shut Down Valve	40-SDV-06	DKN-400	1	8"	
447	I-50- FCV-01A	Annual Maintenance- Flow Control Valve	50-FCV-01A	DKN-500	1	2"	
448	I-50- FCV-01B	Annual Maintenance- Flow Control Valve	50-FCV-01B	DKN-500	1	1"	
449	I-50- LCV-01	Annual Maintenance - Level Control Valve	50-LCV-01	DKN-500	1	1"	
450	I-50- LCV-02	Annual Maintenance - Level Control Valve	50-LCV-02	DKN-500	1	1"	
451	I-50- LCV-03	Annual Maintenance - Level Control Valve	50-LCV-03	DKN-500	1	1"	
452	I-50- LCV-04	Annual Maintenance - Level Control Valve	50-LCV-04	DKN-500	1	N/A	
453	I-50-	Annual Maintenance -	50-LCV-05	DKN-500	1	N/A	

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	LCV-05	Level Control Valve					
454	I-50- LCV-06	Annual Maintenance - Level Control Valve	50-LCV-06	DKN-500	1	N/A	
455	I-50- LCV-07	Annual Maintenance - Level Control Valve	50-LCV-07	DKN-500	1	N/A	
456	I-50- LCV-08	Annual Maintenance - Level Control Valve	50-LCV-08	DKN-500	1	N/A	
457	I-50- PCV-01	Annual Maintenance - Pressure Control Valve	50-PCV-01	DKN-500	1	3"	
458	I-50- PCV-01B	Annual Maintenance - Pressure Control Valve	50-PCV-01B	DKN-500	1	N/A	
459	I-50- PCV-02	Annual Maintenance - Pressure Control Valve	50-PCV-02	DKN-500	1	1"	
460	I-50- PCV-03	Annual Maintenance - Pressure Control Valve	50-PCV-03	DKN-500	1	3"	
461	I-50- PCV-04	Annual Maintenance - Pressure Control Valve	50-PCV-04	DKN-500	1	N/A	
462	I-50- PCV-05	Annual Maintenance - Pressure Control Valve	50-PCV-05	DKN-500	1	N/A	
463	I-50- PCV-06	Annual Maintenance - Pressure Control Valve	50-PCV-06	DKN-500	1	N/A	
464	I-50- TCV-01	Annual Maintenance - Temperature Control V alve	50-TCV-01	DKN-500	1	4-3/8"	
465	I-50- SDV-01	Annual Maintenance - Flow Control Valve	50-SDV-01	DKN-500	1	6"	
466	I-60- FCV-01	Annual Maintenance - Flow Control Valve	60-FCV-01	DKN-600	1	2"	
467	I-60- FCV-02	Annual Maintenance - Flow Control Valve	60-FCV-02	DKN-600	1	1"	
468	I-60- FCV-03	Annual Maintenance - Flow Control Valve	60-FCV-02	DKN-600	1	1"	
469	I-60- FCV-04	Annual Maintenance - Flow Control Valve	60-FCV-04	DKN-600	1	3"	
470	I-60- FCV-05	Annual Maintenance - Flow Control Valve	60-FCV-05	DKN-600	1	1"	
471	I-60- FCV-06	Annual Maintenance - Flow Control Valve	60-FCV-06	DKN-600	1	1-1/2"	
472	I-60- LCV-01	Annual Maintenance - Level Control Valve	60-LCV-01	DKN-600	1	1"	
473	I-60- LCV-02	Annual Maintenance - Level Control Valve	60-LCV-02	DKN-600	1	1"	
474	I-60- LCV-03	Annual Maintenance - Level Control Valve	60-LCV-03	DKN-600	1	1"	
475	I-60- LCV-04	Annual Maintenance - Level Control Valve	60-LCV-04	DKN-600	1	1"	
476	I-60- LCV-05	Annual Maintenance - Level Control Valve	60-LCV-05	DKN-600	1	1"	
477	I-60- LCV-06	Annual Maintenance - Level Control Valve	60-LCV-06	DKN-600	1	1"	
478	I-60- LCV-07	Annual Maintenance - Level Control Valve	60-LCV-07	DKN-600	1	1"	
479	I-60- LCV-09	Annual Maintenance - Level Control Valve	60-LCV-09	DKN-600	1	1"	
480	I-60- LCV-10	Annual Maintenance - Level Control Valve	60-LCV-10	DKN-600	1	1"	
481	I-60-	Annual Maintenance -	60-LCV-11	DKN-600	1	1"	

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	LCV-11	Level Control Valve					
482	I-60- PCV-01	Annual Maintenance - Pressure Control Valve	60-PCV-01	DKN-600	1	1"	
483	I-60- PCV-02	Annual Maintenance - Pressure Control Valve	60-PCV-02	DKN-600	1	1-1/2"	
484	I-60- PCV-03	Annual Maintenance - Pressure Control Valve	60-PCV-03	DKN-600	1	1-1/2"	
485	I-60- PCV-04	Annual Maintenance - Pressure Control Valve	60-LCV-04	DKN-600	1	1-1/2"	
486	I-60- PCV-05	Annual Maintenance - Pressure Control Valve	60-LCV-05	DKN-600	1	1"	
487	I-60- PCV-08	Annual Maintenance - Pressure Control Valve	60-LCV-08	DKN-600	1	1"	
488	I-60- TCV-01	Annual Maintenance- Temperature Control V alve	60-TCV-01	DKN-600	1	1"	
489	I-60-XV- 01	Annual Maintenance- Shut Down Valve	60-XV-02	DKN-600	1	2"	
490	I-100- LCV-01	Annual Maintenance - Level Control Valve	100-LCV-01	DKN-100	1	1"	
491	I-100- LCV-02	Annual Maintenance - Level Control Valve	100-LCV-02	DKN-100	1	1"	
492	I-100- LCV-03	Annual Maintenance - Level Control Valve	100-LCV-03	DKN-100	1	1"	
493	I-100- LCV-04	Annual Maintenance - Level Control Valve	100-LCV-04	DKN-100	1	1"	
494	I-100- LCV-05	Annual Maintenance - Level Control Valve	100-LCV-05	DKN-100	1	1"	
495	I-100- LCV-06	Annual Maintenance - Level Control Valve	100-LCV-06	DKN-100	1	1"	
496	I-100- LCV-07	Annual Maintenance - Level Control Valve	100-LCV-07	DKN-100	1	1"	
497	I-100- LCV-09	Annual Maintenance - Level Control Valve	100-LCV-09	DKN-100	1	1"	
498	I-100- LCV-10	Annual Maintenance - Level Control Valve	100-LCV-10	DKN-100	1	1"	
499	I-100- LCV-11	Annual Maintenance - Level Control Valve	100-LCV-11	DKN-100	1	2"	
500	I-100- PCV-01	Annual Maintenance- Pressure Control Valve	100-PCV-01	DKN-100	1	3"	
501	I-100- PCV-02	Annual Maintenance- Pressure Control Valve	100-PCV-02	DKN-100	1	3"	
502	I-100- PCV-03	Annual Maintenance- Pressure Control Valve	100-PCV-03	DKN-100	1	3"	
503	I-100- PCV-04	Annual Maintenance- Pressure Control Valve	100-PCV-04	DKN-100	1	3"	
504	I-100- PCV-05	Annual Maintenance- Pressure Control Valve	100-PCV-05	DKN-100	1	6"	
505	I-100- PCV-06	Annual Maintenance- Pressure Control Valve	100-PCV-06	DKN-100	1	2"	
506	I-100- PCV-07	Annual Maintenance- Pressure Control Valve	100-PCV-07	DKN-100	1	2"	
507	AM-110- LCV-01	Annual Maintenance- Level Control Valve	110-LCV-01/ 110-FA-01	DKN-110	1	N/A	
508	I-110- LCV-02	Annual Maintenance- Level Control Valve	110-LCV-02/ 110-FA-02	DKN-110	1	2"	

509	I-110- LCV-101	Annual Maintenance- Level Control Valve	110-LCV- 101/ 110- FA-01	DKN-110	1	2"	
510	I-110- PCV-02	Annual Maintenance- Pressure Control Valve	110-PCV-02/ 110-FA-02	DKN-110	1	1"	
511	I-110- PCV-101	Annual Maintenance- Pressure Control Valve	110-PCV- 101/110- FA-01	DKN-110	1	2"	
512	I-806- PCV-01	Annual Maintenance - Pressure Control Valve	806-PCV-01	DKN-800	1	1"	
513	I-806- PCV-2A	Annual Maintenance - Pressure Control Valve	806-PCV- 02A	DKN-800	1	1"	
514	I-806- PCV-2B	Annual Maintenance - Pressure Control Valve	806-PCV- 02B	DKN-800	1	2"	
515	I-806- PCV-03	Annual Maintenance - Pressure Control Valve	806-PCV-03	DKN-800	1	1"	
516	I-830- PCV-01	Annual Maintenance - Pressure Control Valve	830-PCV-01	DKN-800	1	6"	
517	I-830- PCV-02	Annual Maintenance- Pressure Control Valve	830-PCV-02	DKN-800	1	2"	
518	I-830- SDV-01	Annual Maintenance - Pressure Control Valve	830-SDV-01	DKN-800	1		
519	I-830- TCV-01	Annual Maintenance - Temperature Control V alves	830-TCV-01	DKN-800	1	3"	
520	I-830- TCV-02	Annual Maintenance - Temperature Control V alve	830-TCV-02	DKN-800	1	N/A	
521	I-830- TCV-03	Annual Maintenance - Temperature Control V alve	830-TCV-03	DKN-800	1	4"	
522	I-830- TCV-04	Annual Maintenance- Temperature Control V alve	830-TCV-04	DKN-800	1	1"	
523	I-911- SDV-01	Annual Maintenance- Shut Down Valve	911-SDV-01	DKN-911	1	4"	
524	I-911- SDV-02	Annual Maintenance- Shut Down Valve	911-SDV-02	DKN-911	1	4"	
525	I-911- SDV-03	Annual Maintenance- Shut Down Valve	911-SDV-03	DKN-911	1	4"	
526	I-911- SDV-04	Annual Maintenance- Shut Down Valve	911-SDV-04	DKN-911	1	4"	
527	I-911- SDV-05	Annual Maintenance- Shut Down Valve	911-SDV-05	DKN-911	1	4"	
528	I-LV- 0903	Annual Maintenance- Level Control Valve	19-LV-0903	DKN-1900	1	2"	
529	I-LV- 0905	Annual Maintenance- Level Control Valve	19-LV-0905	DKN-1900	1	1"	
530	I-FV- 0905	Annual Maintenance- Flow Control Valve	19-FV-0905	DKN-1900	1	10"	
531	I-FV- 0907	Annual Maintenance- Flow Control Valve	19-FV-0907	DKN-1900	1	1.5"	
532	I-FV- 4601	Annual Maintenance- Flow Control Valve	19-FV-4601	DKN-1900	1	1.5"	
533	I-19-PV- 0952	Annual Maintenance- Pressure Control Valve	19-PV-0952	DKN-1900	1	4"	
534	I-19-PV-	Annual Maintenance-	19-PV-	DKN-1900	1	4"	

	0952B	Pressure Control Valve	0952B				
535	I-19- PCV-	Annual Maintenance- Pressure Control Valve	19-PV-0902	DKN-1900	1	4"	
333	0902		17-1 1-0702	DIXIV-1900	1	<u> </u>	
536	I-19-PV- 09503	Annual Maintenance- Pressure Control Valve	19-PV-0903	DKN-1900	1	4"	
537	I-19-PV- 0908	Annual Maintenance- Pressure Control Valve	19-PV-0908	DKN-1900	1	3"	
538	I-19-PV- 0803	Annual Maintenance- Pressure Control Valve	19-PV-0803	DKN-1900	1	2"	
539	I-19-TV- 0940	Annual Maintenance- Temperature Control V alve	19-TV-0940	DKN-1900	1	1"	
		Electri	cal Activities				
	ATA- BTD-LV	Annual General Mainten ance of Low Voltage (L	850-LV-BB	DKN-850	BUSB AR	2	
540		V) Bus Bars Annual General Mainten					
541	ATA- BTD-MV	ance of Medium Voltage (MV) Bus Bar	850-LV-BB	DKN-850	BUSB AR	1	
542	T1, T2 & BC	Installation of CTs with T1, T2 & Bus coupler		DKN-851	SERVI CES	9	
543	ATA-BC- RGT-A	Annual General Mainten ance of Battery Charger and Battery Bank of RG T-A (Battery Replacement with old 48 No Batteries).		DKN-852	BATT ERY CHAR GER	1 set	
544	ATA-P- 1902	Servicing / Bearing replacement of sulfur loading pump motors (P-1902 A & B) 14.92KW, 380V		DKN-1900	MOTO R	2	
545	ATA-P- 1903	Servicing / Bearing replacement of sulfur feed pump motors (P-1903 A & B) 5.6KW, 380V		DKN-1900	MOTO R	2	
546	ATA-P- 1904	Servicing / Bearing replacement of vertical sulfur pump motors (P-1904 A & B) 5.5KW, 380V		DKN-1900	MOTO R	2	
547	ATA-C- 1904	Servicing / Bearing replacement of acid gas scrubber pump motors (C-1904 A & B) 4KW, 380V		DKN-1900	MOTO R	2	
548	ATA-P- 5001	Servicing / Bearing replacement of HP feed water pump motors (P-5001 A & B) 37KW, 380V		DKN-1900	MOTO R	2	
549	ATA- RFM- 101A	Servicing / cleaning of "New RP Condenser Fan Motor- A" 22KW		DKN-500	MOTO R	1	

		380V					
550	ATA- RFM- 101B	Servicing / cleaning of "New RP Condenser Fan Motor- B" 22KW 380V		DKN-500	MOTO R	1	
551	ATA- RFM- 101C	Servicing / cleaning of "New RP Condenser Fan Motor- C" 22KW 380V		DKN-500	MOTO R	1	
552	ATA- RFM- 101D	Servicing / cleaning of "New RP Condenser Fan Motor- D" 22KW 380V		DKN-500	MOTO R	1	
553	SR	Servicing/ Bearing repla cement of EC- 1901A&B HP STEAM CONDENSER MOTOR 12KW, 380V	19-EC- 1901A-M	DKN-1900	MOTO R	2	
554	SR	Servicing/ Bearing repla cement of EC- 1902A&B LP STEAM CONDENSER MOTOR 12KW, 380V	19-EC- 1901A-M	DKN-1900	MOTO R	2	
555	EM- 100GA01	Servicing/ Bearing repla cement of crude transfer pump motor (100-GA- 01A&B), 7.5KW, 380V	100-GA-01A	DKN-100	MOTO R	2	
556	EM- 801CT01	Servicing/ Bearing repla cement of Cooling tower fan motor (801-CT- 01 A/B/C/D/E/F), 9.5K W		DKN-800	MOTO R	6	
557	EM- 801GA01	Servicing/ Bearing repla cement of Cooling water pump motor (801-GA- 01 A/B), 112KW, 380V		DKN-800	MOTO R	2	
558	EM-802- GA	Servicing/ Bearing repla cement of Raw water pu mp motor (802-GA- 01 A/B), 19KW, 380V	802-GA-01A	DKN-800	MOTO R	2	
559	EM- 803GA01	Servicing/ Bearing repla cement of Potable water pump motor (803-GA- 01 A/B), 3KW, 380V		DKN-800	MOTO R	2	
560	EM- 805GA01	Servicing/ Bearing repla cement of Effluent pum p motor- A, 37KW, 380V		DKN-800	MOTO R	1	
561	EM- 911GA01	Servicing/ Bearing repla cement of LPG loading pump motor (911-GA- 01 A/B), 11.9KW, 380V		DKN-900	MOTO R	2	
562	EM- 912GA01	Servicing/ Bearing repla cement of Demin water pump motor (912-GA- 01 A&B)		DKN-900	MOTO R	2	

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563	EM-EC- 401	Servicing/ Bearing repla cement of Amine cooler fan motor (EC- 401 A/B/C/D), 28KW, 3 80V		DKN-400	MOTO R	4		
303		Servicing/ Bearing repla						
	EM-EC- 402	cement of Amine regen. condenser Fan motor (E C-		DKN-400	MOTO R	2		
564		402 A/B), 28KW, 380V						
565	EM-EC- 602	Servicing/ Bearing repla cement of De- butanizer Condenser fan motor (EC- 602), 11KW, 380V	60-EC-602 - MF	DKN-600	MOTO R	1		
566	SR	Servicing/ Bearing repla cement of RGT (A&B)Ventilation Fan motors (A&B), 22/28K W		DKN-800	MOTO R	4		
567	SR	Servicing/ Bearing repla cement of RGT (A&B)Generator Cooling Fan Motors (A&B), 2.2KW		DKN-801	MOTO R	4		
568	SR	Servicing/ Bearing repla cement of RGT (A&B) Lube Oil Cooler Fan Motors, 18.5KW, 380V		DKN-800	MOTO R	2		
569	ATA-IA- COMP- A/B	Servicing/ Bearing repla cement of "Instrument Air Compressor Main Motors" A&B.132kW		DKN-800	MOTO R	2		
570	ATA-IA- CON-A/B	Servicing/ Bearing repla cement of "Instrument Air Compressor Fan Motors" A&B. 5.5kW		DKN-800	MOTO R	2		
571	ATA-GA- 403	Servicing/ Cleaning of L ean Amine feed pump m otor (GA- 403 A&B), 755KW, 6K V		DKN-400	MOTO R	2		
572	ATA- 830GA01 A	Servicing/ Cleaning of Hot oil cir.pump motor (830-GA- 01 A,B&C), 187KW, 6 KV		DKN-800	MOTO R	3		
573	ATA-RP- COMP	Servicing/ Cleaning of "New RP Main Motor" 975KW, 6kV		DKN-500	MOTO R	1		
574	ATA- 901GA- 01	Servicing/ Cleaning of "Fire Water Pump Motor" 220KW, 6kV		DKN-900	MOTO R	1		
575	ATA-C- 1901-A	Servicing/ Cleaning of " Air Blower Motor C- 1901-A" 250kW, 6kV		DKN-1900	MOTO R	1		
576	ATA-C- 1901-B	Servicing/ Cleaning of" Air Blower Motor C-		DKN-1900	MOTO R	1		

		1901-B" 250kW, 6kV				
577	E- LIGHTS	Plant Fence / flood / Skid / Street lights cleaning, servicing and repair	DKN- PLANT	SERVI CES	150 Nos	
578	850-EHT- 01	Removal/Re-installation of heat tracing cables from different areas of plant equipment.	DKN- PLANT	SERVI CES	400 Mtr	
579	ATA- FRESH- ACTIVIT Y	Dressing/Cable gland removal/reinstallation/c utting of extra cables of 100 Nos. power/control cable under LV/MV room	DKN-850	SERVI CES	100 Nos	
580	E-EP-01	Cleaning and testing of Earth Pits on complete Plant	DKN- PLANT	SERVI CES	40 Nos	
581	ATA- SKID- EARTHI NG	Opening/cleaning/tightn ing of earthing connection of skid and equipment on complete plant.	DKN- PLANT	SERVI CES	400 Nos	
582	ATA- G&C- RGT-A/B	Cleaning of (RGT-A&B) Ruston Gas Turbine Generators & Cooler Ducts	DKN-800	SERVI CES	2	
583	ATA- G&C- SGT	Cleaning of (SGT-100) Siemens Gas Turbine Generator & Cooler Ducts.	DKN-800	SERVI CES	1	
584	MM- 850UPS3	10kVA UPS system cleaning, battery bank inpsection, terminal tightning and battery load test installed with SRU-II and RP system.	DKN- PLANT	SERVI CES	1	
585	SR	Fixing & control cable (connections only) in 26 Nos Local Control Stations at Plant	DKN- PLANT	SERVI CES	26	
586	SR	Fixing & control cable (glanding & connections only) in 26 Nos Junction Boxes at Plant	DKN- PLANT	SERVI CES	26	