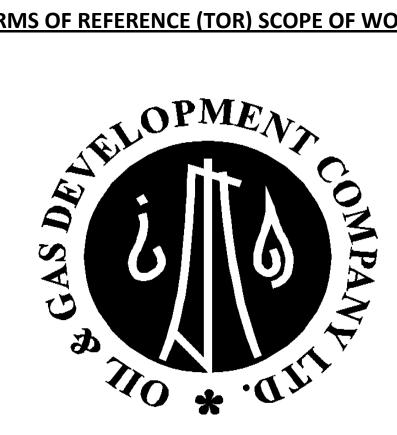
### **OIL & GAS DEVELOPMENT COMPANY LIMITED**

### TERMS OF REFERENCE (TOR) SCOPE OF WORK(SOW)



TENDER ENQUIRY NO: PROC-SERVICES/CB/P&P-4246/2019

#### HIRING OF SERVICES FOR EXECUTION OF ATA-2019 OF UCH-II PLANT

Note: Master set of tender documents (services) uploaded on OGDCL's website (www.ogdcl.com) is the integral part of this TOR/Tender.

### **Annexure-A**

### **TERMS OF REFERENCE (TOR) SCOPE OF WORK(SOW)**

#### **ATA-2019 MAIN CONTRACTOR WORK SCOPE EXPLANATORY NOTES**

- 1. The Owner, Oil & Gas Development Company Limited (OGDCL) is interested in inviting bids for the provision of services (Mechanical, Electrical & Instrumentation) at their Uch-II Gas Plant for the execution of the Annual Turnaround (ATA) 2019 maintenance activities from reputable companies in this field. The tentative schedule of annual shutdown is from 01-04-2019 to 11-04-2019 (11 days), only 08 days should be available for maintenance activities and remaining 01 day will be required for the shutting down and 02 days for startup activities. The contractor shall develop and submit a detailed work schedule including mobilization and preparatory works prior to shutdown.
  - 1.1 Contractor must complete the desired services as per TOR within specified time mentioned above from the date of issuance of mobilization notice issued by OGDCL's P&P Department.
  - 1.2 Contractor shall be allowed to mobilize resources & manpower 10 days before commencement of ATA. Contractor can mobilize limited resources any time before ATA with the prior approval of OGDCL Plant Management for preshutdown activities. However, Contractor shall ensure to mobilize all resources before the start date of ATA in order to complete all ATA activities without delay.
  - 1.3 Contractor should demobilize all resources within 07 days after completion of ATA activities & post shutdown activities.
- 2. The Contractor shall quote separate rate in PKR for each activity against the quantities mentioned in the scope of work.
- 3. The items mentioned in the scope of work consist of furnishing all plant, labor, equipment, machinery, scaffolding and materials for completing the work. The work shall be done, complete in all respects in accordance with the requirements and owner's instructions at site.
- 4. The Quantities contained in the scope of work for each activity are estimated and liable to change (increase, decrease or omitted) when the work is actually executed. The Owner does not expressly or by implication guarantee that actual quantities of work to be performed will correspond to the scope of work submitted with this tender document. The payment to be made to the Contractor shall be based on the actual quantity of work performed.
- 5. The Contractor shall be responsible for carrying out all work, complete in all respects, according to the scope of work. Any item of work required for completion but not expressly indicated in the scope shall be deemed to have been included in the unit rates quoted by the Contractor. The successful contractor will be required to submit detailed procedures for undertaking shutdown jobs especially repair works and modification jobs for Owner's approval.

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- 6. The Contractor shall be responsible for ventilation and getting the vessels fit for entry and working environment. All other works required for equipment / piping repair works, e.g. removal / installation of internals, temporary supports, lighting, ventilation etc., shall be the Contractor's responsibility.
- 7. Contractor shall undertake welding procedures qualification & welder qualification tests and all welding shall be performed by qualified Welders. The brand of electrode used for Qualification shall not be changed for Production Welding. (Contractor shall use electrodes/filler wires of reputable brands of European Origin e.g. ESAB, LINCON, etc.)
- 8. The works are 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.
- 9. Unit rates quoted by bidder shall be firm. No extra payments on account of escalation in prices due to any reason shall be admissible.
- 10. The Contractor shall be paid only for the work duly approved by Owner's representative. Any rework due to poor quality, demonstrated by NDT results & inspection by OGDCL shall be on Contractor's account.
- 11. In case the contractor fails to arrange resources (tools, tackles, consumables, skilled manpower etc.) for execution of any job, OGDCL will arrange/provide its resources to execute the job then the cost double the amount quoted by contractor against that specific job/equipment/area/group will be deducted from final invoice of the contractor.
- 12. The work is being executed within the plant during shutdown and the Contractor shall, therefore, abide by all safety rules and regulations required to be followed by the Owner.
- The painting of repaired piping/stripper weld seams with primer (red oxide) and painting 13. of piping modification jobs with primer (red oxide) & topcoat with high build high solids epoxy (off-white) as per applicable code shall be the responsibility of Contractor while OGDCL will provide the paint for mechanical scope of work only.
- 14. Removal/Re-installation of insulation where applicable shall be the responsibility of Contractor.
- The contractor will arrange certified cranes and all other lifting/rigging gears for all 15. activities to be carried out during ATA.
- 16. The Owner for any job will not provide any tools to contractor. Otherwise owner's representative will be liable to deduct the charges accordingly.
- Skilled manpower should be well experienced in their respective crafts. 17.
- 18. HSEQ Rules & Regulations will be strictly observed.
- 19. All the participating companies/contractors should have at least 5 years of similar experience especially in turnaround of Oil & Gas, Petrochemical & Fertilizers Plants.
- 20. The contractor will arrange the material required for the refractory repair work of incinerator & Hot Oil Heaters. The rough estimated material required for repair work of incinerator is as: Fire cement (10 no. Bags of 25kg each), Castable Refractory (30 no. Bags of 25 kg each). The actual quantities of material should be confirmed after initial inspection of incinerator and Hot Oil Heaters.
- 21. 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 and PWHT) will be developed by keeping in view of under-mentioned references and requirements. Furthermore contractor shall submit the welding procedure specifications with supporting PQR, method statement of repair jobs, hydro testing of Page 3 | 12

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mechanical valves, hydro testing of piping involved in modification jobs at least two weeks before the commencement of ATA for Owner's approval.

#### **References:**

- ASME Sec II Part-A (Ferrous material Specifications)
- ASME Sec II Part-C (Specifications for welding rods, electrodes and filler materials)
- ASME VIII Div-I (Rules for Construction of Pressure Vessels)
- ASME Sec IX (Welding and Brazing Qualifications)
- ASME B31.3 (Process Piping)
- ASME Sec V (Non Destructive Examination)
- API-510 (Code for Inspection of pressure vessels repair, alteration and re-rating)
- API-572 (Inspection of Pressure Vessels)
- API-570 (Inspection, Repair, Alteration and re-rating of piping)
- API-598 (Valves Inspection & Testing)
- MSS-SP-61 (Pressure Testing of Steel Valves)
- NACE MR-0175
- OGDCL's Specifications

#### 22)- INSPECTION/REPAIR/TESTING OF VALVES:

- The Contractor shall quote separate rates for each/individual valve.
- Contractor shall submit the method statement for testing of valves with respect to the standards specified in the references above.
- For repair and build up of seats of valves low hydrogen electrodes E-7018 will be used and good brands will be used.
- All gate valves will be tested for both seat tests i.e. front and back.
- Lapping of valve seats shall be carried out on high-level precision machine.

#### 23)- CHEMICAL CLEANING OF HEAT EXCHANGERS:

- The contractor shall arrange expert company/firm in the field of chemical cleaning as listed below.
  - 1- Multilink Engineering Services, Islamabad (Tel:051-4499251)
  - 2- Pakistan Associates of Industrial Engg. Lahore (Tel:042-35321158)
  - 3- Any other Equivalent

Chemical cleaning firm shall be responsible for the supply of chemicals & services required for chemical cleaning of heat exchangers as mentioned in SOW including manpower, chemical circulation tanks, circulation pumps, hosepipes, fittings, hand tools & PPE's as per job requirement.

# TERMS & CONDITIONS FOR CONTRACTORS UCH-II GAS PLANT ATA-2019

#### **OGDCL'S RESPONSIBILITIES:**

- 1- OGDCL will provide blind/ spades for isolation and pressure testing. However the blinds which are not available in stock, contactor may fabricate with available SS/MS sheets.
- 2- Only lodging (accommodation) will be provided to the Contractor manpower. The arrangement for 300 persons is available at site.
- 3- Only Emergency/First Aid medical coverage will be the responsibility of OGDCL.
- 4- All gaskets and direct material/spare parts will be provided.
- 5- OGDCL will provide paint for jobs wherever mentioned in scope of work.
- 6- OGDCL will provide pumps, tanks and hosepipes for in-place chemical cleaning of vessels & columns only.
- 7- Although the plant has a safe history however adequate security umbrella as provided to the Company's employees will be extended for Contractor's manpower.

#### **CONTRACTOR'S RESPONSIBILITIES:**

- 1- The technical manpower must be qualified/skilled and have at least five years' experience in its trade in the field of Oil & Gas/Petrochemical Processing Plants. Contractor skilled manpower will be interviewed by OGDCL professionals in all disciplines (Mechanical, Electrical and Instrument), if deemed necessary and contractor should arrange the interview at their premises. The detailed CV's of direct manpower/supervisors is mandatory.
- **2-** Contractor will ensure mobilization of management staff, tools/equipment at least 07 days before commencement of ATA.
- 3- Locals should be given preference while hiring of skilled/unskilled manpower.
- 4- The contractor should plan ATA activities (direct/associated) using latest version of Primavera and submit their planned schedule covering all the activities for carrying out ATA of Uch-II Gas Plant successfully with high level quality within stipulated time period. (Soft copy of Primavera Plan is mandatory)
- **5-** Contractor should prepare/submit daily progress report and percentage Gantt chart (planned vs actual) at end of the day.
- **6-** Tools and consumables for the execution of each job including welding / fabrication consumables for all repair and modification jobs.
- **7-** Painting job where ever given in the scope including painting equipment like brushers, roller, spray nozzles/guns, hosepipes etc.
- **8-** Pneumatic Ejectors/Blowers for the ventilation of Columns and Vessels as per job scope requirement.
- 9- 24V Lighting arrangement inside the Column and vessels.
- **10-** In case of any accident, OGDCL will provide only general first aid whereas any other medical treatment would be the responsibility of contractor.
- **11-** Contractor shall arrange the standardized test bench for manual valves, control valves & PSV's pressure testing and interconnecting pipes, tubes, hoses for hydro-test and PSV's bench.

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- **12-** All tools, consumables and calibration equipment/tools for all instruments, control valves & PSV's should be the responsibility of contractor.
- **13** Site administration personnel with associated resources like computer, printers, photocopiers etc.
- **14-** Contractor should arrange the blind flanges for PSV's, control valves and manual valves testing which will not be available at OGDCL store stock.
- **15-** Contractor will arrange certified E & I calibration and testing equipments, the certificates will be submitted before execution of ATA. Original 3<sup>rd</sup> party calibration certificates will be verified by OGDCL representative upon arrival of equipment.
- **16-** Nitrogen gas for PSV's and Regulators testing will be arranged by contractor.
- 17- Cranes and fork lifters suitable to carry out the activities within stipulated time frame.
- **18-** Precision Lathe machines for the repair of manual valves, control valves & PSV's as per work scope requirement.
- 19- Gaskets for pressure testing/bench test of manual valves, control valves & PSV's.
- **20-** Water jetting machines with all accessories up to 15000psig operating pressure for hydrojetting of heat exchangers etc. as per job scope requirement.
- **21-** Chemical cleaning of heat exchangers is the responsibility of contractor and will be carried out by expert firm/company in this field (Refer clause # 23 of explanatory notes).
- 22- Scaffolding material and services, as when and where required.
- **23** Electrical Supply Boards/Cables along with earth leakage circuit breaker as per HSE standard.
- **24-** Pneumatic tools for confined spaces i.e. grinders/power brushes (Vessel and Columns).
- **25-** Contractor will arrange sufficient air compressors in view of complete scope of work (ventilation/filter cleaning/pneumatic tools etc.)
- **26** Shock absorbing safety harness and respirators for contractor employees as per job requirement.
- **27-** 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 like insurance etc.
- **28-** Provision of PPE'S to their manpower and each worker should display ID card (HSE concern)
- **29-** Original certificates of lifting gears, cranes, crane operators, hydro-jetting machines, drivers etc. will be mandatory checked by OGDCL HSE representative. Furthermore, contractor will submit copy of these certificates to HSE representative of OGDCL (HSE Concern)
- **30-** The valid certification of welders, scaffolder etc. will be mandatory. Tags should be displayed for certified scaffolding (HSE Concern).

#### 31- HSEQ manpower by contractor

- a. I/C HSEQ should be B.E Mech/Chemical with Nebosh certification with at least 05 Years of relevant experience.
- b. Supervisor should Graduate/D.A.E having Safety Courses certificates with at least 5 Years of relevant experience.
- c. HSE assistant should be at least Intermediate having Safety Courses/ certificates with at least 5 Years of relevant experience)

- d. Well-equipped First Aider & Rescuers (Trained/Certified at least 02 Nos.) e.g ropes/pulley, tri-pod, stretchers, medicines etc.
- e. HSEQ crew will be interviewed by OGDCL HSEQ representative before commencement of ATA by OGDCL.
- **32** Refractory work of incinerator and Hot Oil Heaters including material is responsibility of contractor and should be carried out through M/S Refra Product, Karachi or any equivalent expert firm/company in this field.
- **33-** Contractor shall arrange Decanting pumps for CPI Pits, Slope Vessel Pit, Amine Sump Pit, Glycol Sump Pit etc. wherever mentioned in SOW.
- **34-** Contractor shall submit WPS & PQR for welding jobs prior to execution of job no deviation will be permissible.
- **35** Contractor shall depute qualified quality control inspectors (Level-II, Level-III CSWIP 3.1, API certified) for the supervision of welding/modification jobs.
- **36-** DPT of all welding jobs (Repair work/Modifications) shall be the responsibility of main execution contractor including material.
- **37-** Submit Total no's of deployed manpower list (designation wise) for the execution of individual job.
- **38** Contractor shall provide adequate meals and laundry services to their employees. Local area Contractor's may be introduced to provide such services.
- **39-** Contractor will arrange transport for the pick and drop for their manpower from Colony to Plant and back for the whole period and also from Jacobabad to field & back. Fitness certificate for vehicles and drivers will be mandatory. Vehicles deployed for said purpose will be inspected by OGDCL and will not be allowed to use if found unfit.
- **40-** Contractor should ensure the police verification of all manpower direct and indirect and must have bio-data file of each. (Security concern)
- **41-** Contractor manpower must have CNIC and Contractor identity card.
- **42-** Contractor should ensure his manpower has no any kind of ammunition and narcotics. (Security concern)
- **43** Mobiles and photo camera are prohibited in the plant premises and contractor should be ensured. (Security concern).
- **44-** Contractor should deploy his own fully equipped security to control the manpower's in/out movement in plant as well as at colony with the coordination of OGDCL security incharge. (Security concern).

### **CONTRACTOR TECHNICAL QUALIFICATION CRITERIA**

Sr.	Evaluation Item	Description of	Max. Marks /	Maximum	Minimum	Remarks
No.		Criteria	Calculations	Marks	Qualifying Marks	
1.	Contractor strength to execute Mechanical, Electrical & Instrumentation work.	Contractor should have experience for execution of Mechanical, Electrical and Instrument works in ATAs.	Fully Complied = 15	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	10	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 07 Million but above 04 Million (PKR) 04 points each. If value/ Cost of ATA performed is less than 04 Million but

Sr. No.	Evaluation Item	Description of Criteria	Max. Marks / Calculations	Maximum Marks	Minimum Qualifying Marks	Remarks
					Walks	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.	Certifications.	Contractor should provide following valid certificates; 1. ISO 9000 certification: 2. ASME U/R/S- Stamp 3. PEC Registration	1. 04 Marks 2. 03/02/02 Marks 4. 04 Marks	15	04	Contractor should submit the valid copy of certificates. If the certificate status is in progress no marks shall be given.
4.	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.  5. Relevant professional CVs & site deployment Organogram for Mechanical, Instrument &	<ol> <li>03Marks</li> <li>08 Marks</li> <li>03 Marks</li> <li>06 Marks         <ul> <li>(04 + 02)</li> <li>10 Marks</li> </ul> </li> </ol>	30	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 25 tons). 02 Marks Max: 04 Marks 01 fork lifters (Min 3 Tons). 01 Mark Max: 02 marks  Organogram: 02 Mark. Mechanical CVs: 04 Mark Electrical CVs: 02Mark

Sr. No.	Evaluation Item	Description of Criteria	Max. Marks / Calculations	Maximum Marks	Minimum Qualifying	Remarks
					Marks	
		Electrical				Instrument CVs:
		works.				02Mark
5.	Safety & HSE	1. Contractor's		10	06	The Contractor
	Policy	documentary				who will provide
		evidence of				1 Million safe
		HSE policy				man hours
		with				record will be
		commitment				awarded 04 marks while the
		to provide PPE, Helmet,	1. 04 Marks			Contractor who
		Ear plugs and	for full			will provide 0.5
		safety shoes	compliance			Million safe man
		to the skilled	, partial			hours record will
		labour at	compliance			be awarded 02
		work.	zero Marks.			Marks.
		2. Well defined				
		HSE policy				
		with	2. 04 Marks,			
		commitment				
		and to	3. 02 Marks			
		provide 1	for full			
		Million Safe	compliance			
		Man hours' record.	partially			
		record.	compliance zero Marks.			
		3. Deployment	Zei O ivial KS.			
		of first aid				
		boxes &				
		medical team				
		for the				
		labour at				
		site.				

Total Marks= 100

*Minimum Qualifying Marks = 70* 

#### 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. Only minor clarification may be acquired as per OGDCL requirement with 1 to 2 days' notice as we have very close schedule for execution of ATA.

- 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

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- category will not be scored by the contractor. In addition, the total marks should also be not less than 70. Any contractor who will score less than 70 marks shall not be considered for qualification.
- 3. Contractor must have three years' total experience of providing ATA/ shutdown services. Contractors having experience less than three years will be disqualified & shall not be considered for qualification even if they score marks more than 70 as per above tabulated criteria. In order to prove three 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.

### FINANCIAL BID FORMAT/EVALUATION CRITERIA

#### **UCH-II Plant ATA-2019**

Sr.	Description	Price in PKR (exclusive of PST/ICT)
01.	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 equipments, tools,	
	manpower, machinery, consumables and PPE) for	
	I. Mechanical works	
	II. Electrical works	
	III. Instrument works	
02.	Mob / Demob Cost (lumpsum)	
03.	Total cost (exclusive of PST/ICT)	

#### Note:

- 1. Total Price should be inclusive of all taxes (except Provincial Sales Tax/ ICT Tax on services in Pakistan), duties, levies, charges etc.
- 2. Bidders are requested to quote the above mentioned rates separately for each activity of the jobs at Sr. No. 01. & provide the activity wise break down as per attached list.
- 3. 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.
- 4. Contract will be awarded to technically qualified and financially lowest evaluated bidder on complete package basis.
- **5.** There will be an estimated Amount Contract.

#### 6. BID PRICE:

- i) Bid price must be quoted in PKR otherwise the bid will be rejected.
- ii) Bid price shall be inclusive of all taxes, duties, levies, charges etc., except Provincial Sales Tax (PST)/ Islamabad Capital Territory Sales Tax (ICT) on services in Pakistan.
- iii) The prices quoted by the successful bidder (contractor) for required services shall remain firm and final throughout contract period. The price charged by the successful bidder (contractor) for required services shall not vary from the prices quoted by the service company.

(This clause shall prevail instead of Master Tender document "ITB" clause # 06 'BID PRICE')

#### 7. PAYMENT TERMS:

100% payment will be made after completion of job as per Scope of Work and against verified invoices at actual along with completion certificate issued by OGDCL.

(This clause will prevail instead of Master Tender document "ITB" clause # 07 'PAYMENT').

#### 8. AMOUNT OF BID BOND:

Bid Bond /Bid Security amounting to **PKR: 900,000/-** is to be attached / provided with the technical bid. Please see Master Set of Tender Document for further details.

#### Note:-

The master set of tender documents (services) uploaded on OGDCL's website (<u>www.ogdcl.com</u>) is the integral part of this TOR.

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Act #	Tag #.	Job Description	s	pecifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
Pro-shi	tdown Activities								
4	ILLIOWIT ACTIVITIES	Connection for N2 Pumper	1						l
2		Depressurizing and N2 purging				+			
3									
3		Blinding of battery limits	1						
4		Installation of scaffoldings as per each equipment job access requirement							
Post-sh	utdown Activities								
1		Deblinding of battery limits							
2		Leak Testing and N <sub>2</sub> purging							
3		Removal of all scaffoldings							
4		Overall housekeeping/Area Cleaning							
5		Skilled manpower will be deployed for startup activities for 07 days after shutdown.							
GROU	P-A: COLUMNS								
MA1	300-T-101	Amine Contactor (02 Nos)					2		
1	&	Blinding	Height of Contact	or : 43 ft	Strik.Spanner: 70,75,60mm	Arrangement for chem.			
2	310-T-101	Provision of connections for chemical cleaning/water flushing	I.D. of Contactor	: 122 in.	Comb.Sp.16,17mm (Trays)	circulation & water flush-			
3		Opening of manways (02 Nos.)	No. of trays	: 12 nos.	Socket Set,	ing is available at site.			
4		Ventilation / Safety clearance	Size of Manway	: 24 in.x 600 CL	Adjustable Spanner				
5		Initial inspection						1	
6		Internal complete mech. cleaning of trays, demisters, vessel, LG's etc.						1	
7		Final Inspection							
8		Вохир						+	
9		Deblinding						+	
MA2	300-T-102	Amine Regenerator (2 Nos)				†	2		
1	&	Blinding	Height of Stripper	r: 60 ft	Strik.Spanner: 50,41 mm	Arrangement for chem.			
2	310-T-102	Provision of connections for chemical cleaning/water flushing	I.D. of Stripper	: 10.5 in.	Comb.Sp.16,17mm (Trays)	circulation & water flush-			
3		Opening of manways (03 Nos.)	No's. of trays	: 23 nos.	Socket Set,	ing is available at site.			
4		Ventilation / Safety clearance	Size of Manway	: 24 in.x 150 CL	Adjustable Spanner				
5		Initial inspection						1	
6		Internal complete mech. cleaning of trays, demisters, vessel, LG's etc.	1					+	
7		Final Inspection						+	
8		Вохир						+	
9		Deblinding						+	
MA3	400-T-101	Glycol Contactor (02 Nos)					2		
1	&	Blinding	Height of Contact	or : 52 ft	Str.Spanner: 46,50 mm				
2	410-T-101	Opening of manways (02 Nos)	I.D. of Contactor		Open/Ring Spanner:			+	
3		Ventilation / Safety clearance	No. of trays	: 12 nos.	20, 22, 24, 27mm	1			
4		Initial inspection	Size of Manway	: 24 in.x 600 CL				+	
5		Internal cleaning of packing, demisters, vessel, LG's etc.						+	
6		Final Inspection						+	
7		Boxup	+			+		+	
		Deblinding	1			+		+	
8									
8 MA4	350-H-101	Incinerator Unit					1		

			WECHANICAL SCO					
Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
2		Opening of 30 " manway.	Size : I.D. 16ft, Length: 46ft					
3		Ventilation / Safety clearance						
4		Initial inspection of Combustion Chamber, Refractory, Burners & Pilots						
5		Repairing of Refractory if required.						
6		Final Inspection						
7		Вохир						
8		Deblinding						
MA5	900-H101-A/B/C/D	Hot Oil Heaters (04 Nos)				4		
1		Blinding	Size Manways: 24 x 18 inch					
2		Manways Opening (02)	Type: Vertical cylinder with over head					
3		Internal Inspection of furnace/refractory	conviction & stack					
4		Refractory repair if required	Manufacturer : BSS, China					
5		All Burners/ Pilots tips inspection/cleaning if required						
6		Final Inspection						
7		Boxup						
8		Deblinding						
	P-B: VESSELS							
MB1	210-V-101	Slug Catcher Eastern				1		
1		Blinding	Horizontal Vessel	Strik.Span:65,50,41 mm				
2		Opening of manway	Size of Manway : 20" x 600 CL	Comb.Span.:27,32mm				
3		Ventilation/Safety clearance	Size of Vessel : 83" ID x 328" L	Adjustable Spanner				
4		Initial Internal Inspection of vessel and demister						
5		Cleaning of complete vessel, Demister & LG's etc.						
6		Final inspection						
7		Boxup						
8		Deblinding						
MB2	211-V-101	Slug Catcher Central				1		
1		Blinding	Horizontal Vessel	Strik.Span:65,41 mm				
2		Opening of manway	Size of Manway : 20" x 600 CL	Comb.Span.:27mm				
3		Ventilation/Safety clearance	Size of Vessel : 83" ID x 328" L	Adjustable Spanner				
4		Initial Internal Inspection of vessel and demister		Crow Bar				
5		Cleaning of complete vessel, demister & LG's etc.						
6		Final inspection						
7		Boxup						
8		Deblinding						
MB3	212-V-101	Slug Catcher Western				1	ļ	
1		Blinding	Horizontal Vessel	Strik.Span:65,41 mm				
2		Opening of manway	Size of Manway : 20" x 600 CL	Comb.Span.:27mm				
3		Ventilation/Safety clearance	Size of Vessel : 94" ID x 379" L	Adjustable Spanner				
4		Initial Internal Inspection of vessel and demister		Crow Bar				
5		Cleaning of complete vessel, demister & LG's etc.						
6		Final inspection						
7		Boxup						
8		Deblinding						
MB4	250-V-101	Condensate Water Separator				1		

Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
1		Blinding	Horizontal Vessel	St.Sp.: 46 mm				
2		Opening of manway	Size of Manway : 20" x 150 CL	Comb.Sp.: 24,27mm				
3		Ventilation/Safety clearance	Size of Vessel : 59" ID x 229" L	Adjustable Spanner				
4		Initial Internal Inspection of vessel						
5		Cleaning of vessel, demisters & LG's.						
6		Final inspection						
7		Вохир						
8		Deblinding						
MB5	250-V-102	Condensate Degassing Boot				1		
1		Blinding	Vertical Vessel	St.Sp.: 46 mm				
2		Opening of manway	Size of Manway : 18" x 150 CL	Comb.Sp.: 24,27mm				
3		Ventilation/Safety clearance	Size of Vessel : 1070mm ID x 3355mm L	Adjustable Spanner				
4		Initial Internal Inspection of vessel						
5		Cleaning of vessel, demisters & LG's.						
6		Final inspection						
7		Вохир						
8		Deblinding						
MB6	300-V-101	Feed Gas K.O Drum (2 Nos)				2		
1	&	Blinding	Vertical Vessel	Strik. Span: 70,65mm				
2	310-V-101	Opening of manway	Size of Manway : 24" x 600 CL	Comb;Spanner: 27,30mm				
3		Ventilation/safety clearance	Size of Vessel : 45.27" I.D. X 100.4" L	Scaffodling Material				
4		Initial Internal Inspection of vessel		Crow Bar, Chain Blocks				
5		Internal cleaning of complete vessel, LG's/LT's etc.						
6		Final Inspection						
7		Box up						
8		Deblinding						
МВ7	300-V-102	Feed Gas Filter Coalescer (02 Nos)				2		
1	&	Opening Of Top Cover	Vertical Vessel	Strik. Span: 65mm				
2	310-V-102	Inspection Of Filter Coalescer Elements	Size of Vessel : 43.3" I.D. X 185.4" TL-TL	Comb;Spanner: 27,30mm				
3		Replacement Of Filter Coalescer Elements						
4		Final Inspection						
5		Box up						
MB8	300-S101 A/B	Lean Amine Strainers (04 Nos)				4		
1	&	Opening of 28" Cover		Strik.Span: 32 mm				
2	310-S101 A/B	Initial Inspection		Hammers, Crow bar				
3		Cleaning of strainer		Scaffolding material				
4		Final Inspection		-				
5		Boxup						
MB9	300-S105 A/B	Rich Amine Strainers (04 Nos)				4		
1	&	Opening of 28" Cover		Strik.Span: 32 mm				
2	310-S105 A/B	Initial Inspection		Hammers, Crow bar				
3		Cleaning of strainer		Scaffolding material				
4		Final Inspection						
5		Вохир						1
MB10	300-V-104	Rich Amine Flash Drum (02 Nos)				2		

Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
1	&	Blinding	Horizontal Vessel	Str.Spanner: 46,50 mm	Arrangement for chem.			
2	310-V-104	Provision of connections for chemical cleaning/water flushing	Size of Manway : 24" x 150 CL	Open/Ring Sp: 20,22,24,27m	circulation & water flush-			
3		Opening of manway	Size of Vessel :137.8" I.D. X 511.8"L	Crow bar, Chain Blocks	ing is available at site.			
4		Ventilation/safety clearance	Material : SA-240, TP.304/304L	Scaffolding Material				
5		Initial Inspection of vessel						
6		Dismantling/removal of demisters & repair/replacement if any						
7		Internal cleaning of complete Vessel & LG's.						
8		Cleaning of demisters & re-installation						
9		Final Inspection						
10		Box up						
11		Deblinding						
MB11	300-V-105	Amine Surge Vessel (02 Nos)				2		
1	&	Blinding	Horizontal Vessel	Str.Spanner: 46 mm				
2	310-V-105	Opening of manway	Size of Manway : 24" x 150 CL	Open/Ring Sp: 20,22,24,27m	ım			
3		Ventilation/safety clearance	Size of Vessel :3550mm I.D. X 12000mm L	General Tool Box				
5		Initial Inspection of vessel	Material : SA-240, TP.304/304L					
6		Internal cleaning of complete vessel, vertex breaker, LG's etc.						
7		Final Inspection						
8		Box up						
9		Deblinding						
MB12	300-V-106	Amine Reflux Drum (02 Nos)				2		
1	&	Blinding	Vertical Vessel	Strik.Spner: 46 mm				
2	310-V-106	Opening of manway	Size of Manway : 24" x 150 CL	Comb,Spner: 24,27mm				
3		Ventilation/safety clearance	Size of Vessel : 1880mm ID x 3370mm L	General Tool Box				
4		Initial Inspection	Main Material : SA-240, TP.304L					
5		Internal cleaning of complete vessel, LG's/LT's etc.						
6		Inspection, cleaning/repair of Demisters, if any						
8		Final Inspection						
9		Box up						
10		Deblinding						
MB13	300-V-107	Amine Sump Drum (02 Nos)				2		
1	&	Blinding	Horizontal Vessel	Strik.Spner: 46 mm				
2	310-V-107	Opening of manway	Size of Manway : 24" x 150 CL	Comb,Spner: 24,27,36,41mm	ו			
3		Ventilation/safety clearance	Size of Vessel : 3150mm ID x 12000 mm L	General Tool Box				
4		Initial Inspection	Material : SA-240, TP.304L					
5		Decanting of Sump Vessel						-
6		Internal cleaning of complete vessel, LG's/LT's etc.						
7		Decanting & cleaning of Sump Vessel Pit						
8		Final Inspection						
9		Box up						
10	400 1/ 400	Deblinding	<u> </u>					
MB14	400-V-103	Glycol Flash Separator (02 Nos)	Had-andal Variation	Chrile Connent EC		2		
1	& 410-V-103	Blinding	Horizontal Vessel	Strik.Spner: 50mm				
2	41U-V-1U3	Opening of manway	Size of Manway : 24" x 150 CL	Comb,Spner: 24,27,36mm				
3		Ventilation/safety clearance	Size of Vessel : 4.43 ft ID x 12.47 ft L	General Tool Box		l		<u> </u>

Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
4		Initial Inspection	Main Material : SA-240, 304/304L					
5		Internal cleaning of vessel, demisters, LG's etc.						
6		Overall cleaning/housekeeping of Skid						
7		Final Inspection						
8		Box up						
9		Deblinding						
MB15	400-V-104	Glycol Surge Vessel (02 Nos)				2		
1	&	Blinding	Horizontal Vessel	Strik.Spner: 50mm				
2	410-V-104	Opening of manway	Size of Manway : 24" x 150 CL	Comb,Spner: 24,27,36mm				
3		Ventilation/safety clearance	Size of Vessel : 4.59 ft ID x 14.76 ft L	Scaffolding Material				
4		Initial Inspection	Main Material : ASTM A516 Gr. 70N	General Tool Box				
5		Internal cleaning of vessel, demisters, LG's etc.						
6		Overall cleaning/housekeeping of Skid						
7		Final Inspection						
8		Box up						
9		Deblinding						
MB16	410-V-105	Glycol Sump Vessel (01 Nos)				1		
1		Blinding	Horizontal Vessel	Strik.Spner: 50mm				
2		Opening of manways	Size of Manway : 24" x 150 CL	Comb,Spner: 24,27,36mm				
3		Ventilation/safety clearance	Size of Vessel : 6.24 ft ID x 19.68 ft L	Scaffolding Material				
4		Initial Inspection	Main Material : ASTM A516 Gr. 70N	General Tool Box				
5		Internal cleaning of vessel, demisters, LG's etc.						
6		Decanting & cleaning of Sump Vessel Pit						
7		Final Inspection						
8		Box up						
9		Deblinding						
MB17	350-V-101	Incinerator K.O Drum				1		
1		Blinding	Vertical Vessel	Strik.Spner: 55,50mm				
2		Opening of manways	Size of Manway : 24" x 150 CL	Comb,Spner: 24,27,36,41mm				
3		Ventilation/safety clearance	Size of Vessel : 118" ID x 161" L	Scaffolding Material				
4		Initial Inspection	Main Material : SA-240, TP.304L					
5		Internal cleaning of complete vessel, LG's/LT's etc.						
6		Final Inspection						
7		Box up						
8		Deblinding						
MB18	940-V-102	Slope Vessel				1		
1		Blinding	Horizontal Vessel	Strik.Spner: 46,50mm				
2		Opening of manways	Size of Manway : 20" x 150 CL	Scaffolding Material				
3		Ventilation/safety clearance	Size of Vessel : 79 I.D. X 300" L					
4		Initial Inspection	Material : SA516-70/SA105					
5		Internal cleaning of complete vessel and its pit						
6		Cleaning of LG's/LT's						
7		Decanting & cleaning of Vessel Pit						
8		Final Inspection						
9	·	Box up			· · · · · · · · · · · · · · · · · · ·		1	1

			WIECHANICAL SCO	TE OF WORK				
Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
10		Deblinding						
MB19	940-V-101	Blow Case Vessel				1		
1		Blinding	Horizontal Vessel	Strik.Spner: 46,50mm				
2		Opening of manways	Size of Manway : 18" x 300 CL	Comb,Spner: 24,27,30,32mm				
3		Ventilation/safety clearance	Size of Vessel : 1220 mm ID x 3660mm L					
4		Initial Inspection	Main Material : SA-516-70					
5		Internal cleaning of complete vessel, LG's/LT's etc.						
6		Inspection						
7		Box up						
8		Deblinding						
MB20	990-V-101	Flare K.O Drum				1		
1		Blinding	Horizontal Vessel	Strik.Spanner:46mm				
2		Opening of manways	Size of Manway : 24" x 150 CL	Comb,Spner:24,27mm				
3		Ventilation/safety clearance	Size of Vessel : 118" ID x 446" L					
4		Initial Inspection	Material : SA-516 Gr.70					
5		Internal cleaning of complete vessel, LG's/LT's etc.						
6		Final Inspection						
7		Box up						
8		Deblinding						
MB21	960-V-102	Fuel Gas Knock Out				1		
1		Blinding	Vertical Vessel	Strik.Spanner:46mm				
2		Opening of manways	Size of Manway : 20" x 150 CL	Comb,Spner:24,27mm				
3		Ventilation/safety clearance	Size of Vessel : 1375mm ID x 3965mm L					
4		Initial Inspection	Material : SA-516 Gr.70					
5		Internal cleaning of complete vessel, LG's/LT's etc.						
6		Final Inspection						
7		Box up						
8		Deblinding						
MB22	300-CT-101	Cooling Tower				2		
1	&	Basin Cleaning	Type: Induced Draft Counterflow	General Tool Box				
2	310-CT-101	Inspection/Cleaning/Re-arrangement of Drift Eliminators/Fills	Design Water Circulation: 8769.2 US gpm		<del>-</del>			
3		Inspection/Cleaning/Replacement of Water distribution Nozzles	No. of Modules: 08 No of Cells per Module: 02					
4		Cleaning of Air intake Panels/Louvers	Basin Size(LxWxD): 144x48x4 ft.					
5		Cleaning of Fan Blades & adjustment of blade angle, if requird	By: Ilmed I,Pianti Italy					
6		Final Inspection						
MB23	950-TK-102-	CPI (Oily Water Treatment System)				3		
1	A/B/C	Initial Inspection of all pits.	Inlet Pit, Oil Chamber, Water Pit					
2		Decanting / Cleaning of all pits	Size: 51360mm L x 4080mm W x 4228mm H					
3		Final Inspection						
MB24		Hot Oil Fuel Gas Strainer A/B/C/D				4		
1		Strainer Inspection / Cleaning and repair if any		General Tool Box				
2		Вохир						
MB25	900-S101-A	Hot Oil Main Strainer				1		
1		Opening of Cover		Strik.Span: 41, G. Tool Box				
2		Initial Inspection						
		· ·	1	1			1	

	MEGNAMICAE SCOLE OF WORK								
Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)	
3		Cleaning of strainer							
4		Final Inspection							
5		Вохир		Crane-45Ton,					
MB26	900-F101-A/B	Hot Oil Side Filters				2			
1		Strainer Inspection / Cleaning and repair if any		Strik.Span: 60, G.Tool Box					
2		Boxup		Crane-45Ton,					
GROU	P-C: HEAT EXCHAN	IGERS							
MC1	300-E-111	Feed Gas Cooler (02Nos.)				2			
1	&	Blinding/Isolation Type: 8	BFU, U-Tube Bundle	Crane-45Ton, Chain Blocks,					
2	310-E-111	Initial Inspection No.of 1	ubes : 1278, Two Pass	Strik.Span: 65,50 mm					
3		Arrangement/connections for chemical cleaning Tube S	ize: 0.75"(OD) x 0.065"(thk)x 12.3ft (L)	Comb. Span: 27,36mm					
4		Chemical Cleaning of Shell Side Tube E	undle Weight : 3.89t	Jetting machine					
5		-	ide Medium : Cooling Water	Sling, Shackles, etc.					
6		-	ide Medium : Raw/Feed Gas	J,					
7		Deblinding							
8		Housekeeping / Area cleaning							
MC2	300-E-113	Lean Amine Trim Cooler (02 Nos)				2			
1	&		BFM, No. of Tubes = 2224	Channel head weight = 2 ton					
2	310-E-113		ze = 25.4(OD)x1.651 (thk.)x5850 (L)mm	Strik.Span: 1.8125" (46mm)					
3	310 2 110	<u> </u>	Passes: Shell Side= 2 & Tube Side= 8	Chain Blocks: 5 ton					
4			Weight = 28331 lb	Crow bar					
5			Dim= 1820 (I.D.) x 7626 (TL-TL) mm	Olow Ball					
6			de Medium : Cooling Water						
7			de Medium : Lean Amine						
8		Housekeeping / Area cleaning	ue Medidiii . Leali Allillie						
MC3	300-E-114	Amine Regenerator Condenser (02 Nos)				2			
1	& &		BEM, No. of Tubes: 1319	Crane-45Ton, Chain Blocks,		2			
2	310-E-114	9	ize:1"(OD) x 0.065"(thk)x 29.53 ft (L)	Strik.Span: 50 mm					
3	310-L-114		Passes: Shell Side=01 Tube Side=01	Comb. Span: 27,36, 41mm					
4			Weight = 25860 lb	Scaffolding material					
5			el head O.D.= 1640 mm	Jetting machine					
6		Final Inspection	ornead O.D.= 1040 (IIIII	Sling, Shackles			-		
7		Deblinding		omig, offacties					
8		Housekeeping / Area cleaning							
MC4	300-EA-103	Lean Amine Fin-Fan Cooler (02 Nos.)				2			
	8.	` '	tubes : 192	Chain Block: 10 ton		۷			
2	310-EA-103			Strik.Span: 27,30,32mm					
3	310-EA-103	-		Comb. Span: 27,30,32mm					
4		3		Crow bar					
5		Verification / Adjustment of Fan blade angle No. of  Alignment of Fan	passes : Three	CIOW Dal					
		<u> </u>							
6		Final Inspection							
7	000 F 440 A 75	Housekeeping / Area cleaning							
MC5	300-E-112 A/B	Treated Gas Cooler (04 Nos.)		Objete Bleede 40 :		4			
1		Blinding/Isolation No. of		Chain Block: 10 ton			-		
2	310-E-112 A/B	Initial Inspection Tube C	).D. : 1 in.	Strik.Span: 55 mm			_		

Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
3		Arrangement/connections for chemical cleaning	Tube Length : 230 in. or 19 ft	Comb. Span: 55mm				
4		Chemical Cleaning of Shell Side	No. of passes : One	Crow bar				
5		Pressure Testing						
6		Final Inspection						
7		Deblinding						
8		Housekeeping / Area cleaning						
GROU	P-D: ROTARY							1
MD1	SGT-100-1/2/3	Gas Turbines (03 Nos)				3		
1		Enclosure Inspection & Cleaning	SIEMENS GAS TURBINE	General Tool Box				
2		Cleaning of mist. Eliminator panels of Air-Intake Hood	MAKE: SIEMENS-UK					
3		Cleaning & Replacement of Air Intake Filters (Pulse (24 Nos +24) + Hepa 15 Nos)	MODEL: SGT-100 -1S					
4		External Cleaning of Lube Oil Fin Fan Coolers Tubes/Fins						
5		Overall cleaning of Turbine enclosure						
6		Inspection/replacement of Fuel Gas skid K/O Filter Coalescer Elements.						
7		Cleaning of fuel gas and liquid fuel skids						
8		Ventilation air inlet Filter/duct cleaning						
9		Final Inspection						
10		Area cleaning						
MD2	300-P104A/B	Lean Amine Booster Pump (04 Nos)				4		
1	&	Decoupling of Pump & Motor	Single-stage Centrifugal pump	Strik.Span. 32,36mm				
2	310-P104A/B	Initial Alignment check	Capacity=1970 gpm.	General Tool Box				
3		Inspection/Dismantling of Pump casing, if required	Pressure= 79.49 psig	Comb.Spanner 16,17mm				
4		Service of Mechanical Seal if any having leakage problem.	Suc.x Disch. = 8 x 6 in	Millwright Special Tools				
5		Replacement of bearings if required.	Make: RUHRPUMPEN, GERMANY					
6		Assembly of pump						
7		Cleaning of suction & seal flush line strainers						
8		Alignment						
9		Housekeeping / Area cleaning						
MD3	300-P105A/B	Lean Amine Circulation Pump (04 Nos)				4		
1	&	Decoupling of Pump & Motor	7-stage Centrifugal pump	Striking Spanner 46mm,				
2	310-P105A/B	Initial Alignment check	Capacity=1960 gpm.	55,46 mm.				
3		Dismantling of bearing housings	Dis.Pressure= 922.2 psig	General Tool Box				
4		Removal of bearings for inspection	Suc.x Disch. = 8 x 6 in	Millwright Special Tools				
5		Cleaning / Repair / repl. of damage parts, if any	Make: RUHRPUMPEN, Germany					
6		Service of Mechanical Seal (Dismantling, cleaning/lapping & re-						
7		Assembling of bearing housing						
8		Cleaning of suction & seal flush line strainers						
9		Alignment						
10		Housekeeping / Area cleaning						
MD4	300-P106A/B	Regenerator Reflux Pump (04 Nos)				4		
1	&	Dismantling of pump	Magnetic Drive Centrifugal pump	Comb,Spner:24,27mm				
2	310-P106A/B	Inspection of casing	Capacity=106.9 gpm.	General Tool Box				
3		Cleaning / Repair / repl. of damage parts, if any	Dis.Pressure= 64.5 psig	Millwright Special Tools				
4		Assembling of pump	Suc.x Disch. = 3 x 1-1/2 in					

			MILOTIANICAL 3001	E OF WORK				
Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
5		Cleaning of suction & seal flush line strainer Make:	RUHRPUMPEN, Germany					
6		Housekeeping / Area cleaning						
MD5	900-P-102	Hot Oil Circulation Pumps (10 Nos)				10		
1	A/B/C/D/E/F/G/H/I/J	Decoupling of Pump & Motor Single	e-stage Centrifugal pump	General Tool Box				
2		Service of Mechanical Seal if any having leakage problem. Capac	city=2496 gpm.	Millwright Special Tools				
3		Replacement of bearings if required.	ure= 132 psig					
4		Alignment Suc.x	Disch. = 10 x 8 in					
5		Cleaning of suction & seal flush line strainers Make:	SULZER Pumps & Compressor. Italy					
6		Blue epoxy paint to outer surface of pump						
7		Area cleaning						
MD6	900-C52-A/B/C/D	Hot Oil Heater FD Fans (04 Nos)				4		
1		Opening of FD Fan inspection windows.	fugal Fan	Strik.Span. 30 mm				
2		Inspection/cleaning of Fan duct/dampers.	rate = 38893 m3/h	Comb.Spanner 24mm				
3		Inspection/Replacement of bearings of FD Fans RPM =	= 1450	General Tool Box				
4		Alignment		Millwright Special Tools				
5		Housekeeping / Area cleaning						
MD7	300-P-111 A/B	Cooling Water Pump (04 Nos)				4		
1	&	Decoupling of Pump & Motor Centri	fugal Pump	General Tool Box				
2	310-P-111 A/B	Service of Sealing system if any having leakage problem.	city= 2915 gpm.	Millwright Special Tools				
3		Replacement of bearings if required.	ure= 30 psig					
4		Alignment Suc.x	Disch. = 20 x 24 in					
5		Cleaning of suction & seal flush line strainers Make:	STERLING Fluid System, ITALY					
6		Blue epoxy paint to outer surface of pump						
7		Area cleaning						
MD8	350-C101 A/B	Combustion Air Primary Blower (Incinerator)				2		
1		Opening of FD Fan inspection windows.	fugal Fan	General Tool Box				
2		Inspection of dampers. Make:	PBN, Italy	Millwright Special Tools		·		
3		Greasing of bearings MODE	EL: RAW1402/8G/RD315°-355SMA6					
4		Alignment Flow F	Rate: 30cu.m/sec					

Act #	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
GROU	P-E: MANUAL VALVE	:S:-						
ME1	Gathering Area	Manual Valves Gathering Area (34 Nos.)			Valves list attached	34		
1		Dismantling of Valves from location						
2		Shifting of valves to workshop						
3		Initial Testing/Inspection of valves						
4		Repair of defected valves						
5		Pressure Testing						
6		Painting of Valves if required.						
7		Shifting of valves at Location						
8		Installation of valves at location						
ME2	Amine Train-300	Manual Valves of Amine Train-I ( 24 Nos.)	Onsite Service & Greasing: 16 out of 25		Valves list attached	24		
1		Dismantling of Valves from location						
2		Shifting of valves to workshop						
3		Testing/Inspection of valves						
4		Repair of defected valves						
5		Pressure Testing						
6		Painting of Valves if required.						
7		Shifting of valves at Location						
8		Installation of valves at location						
ME3	Amine Train-310	Manual Valves of Amine Train-II ( 23 Nos.)	Onsite Service & Greasing: 16 out of 25		Valves list attached	23		
1		Dismantling of Valves from location						
2		Shifting of valves to workshop						
3		Testing/Inspection of valves						
4		Repair of defected valves						
5		Pressure Testing						
6		Painting of Valves if required.						
7		Shifting of valves at Location						
8		Installation of valves at location						

Act#	Tag #.	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
ME4	Hot Oil/Utility	Manual Valves of Hot Oil Pumps & Utility Area (12 Nos.)			Valves list attached	12		
1		Dismantling of Valves from location						
2		Shifting of valves to workshop						
3		Testing/Inspection of valves						
4		Repair of defected valves						
5		Pressure Testing						
6		Painting of Valves if required.						
7		Shifting of valves at Location						
8		Installation of valves at location						
		Grand Tota	I in PKR (exclusive of PST/ICT)					

		Ų	JCH-II	ATA-2019	MANUAL VALVES LIST		
S.#	VALVE	SIZE	CLASS	Mat./Const.	DESCRIPTION/LOCATION	QTY	Remarks
			М	E1: GAS GAT	HERING AREA VALVES		
Wel	l no. 19, 20, 26, 27						
1	Ball Valve	4"	600	SS / Flanged	PSV's by pass valves	3	Well 19,20,27
2	Ball Valve	6"x4"	600	SS / Flanged	PSV's by pass valves	1	Well 26
3	Globe Valve	4"	600	CS / Flanged	PSV's by pass valves	3	Well 19,20,27
210	-V101 Eastern Slug	Cato	her:		•		
1	Gate Valve	3"	600	SS / Flanged	Liquid H/C at 210-LCV-001 Isolation	3	
2	Gate Valve	1.5"	600	SS / Flanged	Liquid H/C outlet line LCV bypass	1	
3	Globe Valve	1.5"	600	SS / Flanged	Liquid H/C outlet line LCV bypass	1	
4	Ball Valve	2"	600	SS / Flanged	Liquid H/C outlet line to closed drain	1	
5	Globe Valve	2"	600	SS / Flanged	Liquid H/C outlet line to closed drain	1	
6	NRV	3"	600	SS / WAFER	Liquid H/C outlet line to C/W Sep.	1	
7	NRV	2"	600	SS / WAFER	Liquid H/C outlet line to closed drain	1	
211	-V101 Central Slug	Catc	her:				
1	Gate Valve	3"	600	SS / Flanged	Liquid H/C at 211-LCV-001 Isolation	3	
2	Ball Valve	2"	600	SS / Flanged	Liquid H/C outlet line LCV bypass	1	
3	Globe Valve	2"	600	SS / Flanged	Liquid H/C outlet line LCV bypass	1	
4	Gate Valve	2"	600	SS / Flanged	Liquid H/C outlet line to closed drain	1	
5	Globe Valve	2"	600	SS / Flanged	Liquid H/C outlet line to closed drain	1	
6	NRV	3"	600	SS / WAFER	Liquid H/C outlet line to C/W Sep.	1	
7	NRV	2"	600	SS / WAFER	Liquid H/C outlet line to closed drain	1	
212	-V101 Western Slu	g Cat	cher:				
1	Gate Valve	3"	600	SS / Flanged	Liquid H/C at 212-LCV-001 ISOLATION	3	
2	Gate Valve	1"	800	SS / Welded	Liquid H/C outlet line LCV bypass	1	
3	Globe Valve	1"	800	SS / Welded	Liquid H/C outlet line LCV bypass	1	
4	Ball Valve	2"	600	SS / Flanged	Liquid H/C outlet line to closed drain	1	
5	Globe Valve	2"	600	SS / Flanged	Liquid H/C outlet line to closed drain	1	
6	NRV	3"	600	SS / WAFER	Liquid H/C outlet line to C/W Sep.	1	
7	NRV	2"	600	SS / WAFER	Liquid H/C outlet line to closed drain	1	
				•	Total Valves of Gas Gathering Area	34	
				ME2: AMINE	TRAIN-I (300) VALVES		ı
300	-E-103A Amine Re	gener			777		
1	Gate Valve	16"			Hot Oil to Reboiler FCV-036A Isolation	2	Only onsite
	Gate Valve	16"		CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	Only onsite
3	Globe Valve	16"	300	CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	service &
4	Gate Valve	16"	300	CS / Flanged	Hot Oil Inlet Reboiler Isolation	1	greasing
5	Gate Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	2	1
6	Check Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	1	1
	-E-103B Amine Re				return out let line from repolier	_ '	
1	Gate Valve	16"	300	CS / Flanged	Hot Oil to Reboiler FCV-036B Isolation	2	Only oneite
2	Gate Valve	16"	300	CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	Only onsite
3	Globe Valve	16"	300	CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	service &
4	Gate Valve	16"	300	CS / Flanged	Hot Oil Inlet Reboiler Isolation	1	greasing
5	Gate Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	2	1
6	Check Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	1	1
	-V-101 Feed Gas K			oo / Flanged	Instant/Out let illie from repoller		
				CC / []on'	H/C Outlet 200 LOV 000 km	1	DTI
1	Globe valve	1"	600	SS / Flanged	H/C Outlet 300-LCV-002 bypass valve	1	RTJ
2	Ball valve	1"	600	SS / Flanged	H/C Outlet 300-LCV-002 bypass valve	1	RTJ

		ι	JCH-II	ATA-2019	MANUAL VALVES LIST		
S.#	VALVE	SIZE	CLASS	Mat./Const.	DESCRIPTION/LOCATION	QTY	Remarks
300	-P-105A/B Amine C	ircula	tion Pur	np			
1	Check Valve	10"	900	SS / Flanged	Lean Amine ACP Discharge line NRV's	4	
300	-P-111A/B Cooling	Wate	r Pump:-		<u> </u>		
1	Check Valve	24"	150	CS / Flanged	Cooling water Pump discharge NRV's	2	
	,			· · · · · · · · · · · · · · · · · ·	Total AMINE TRAIN-I VALVES:-	24	
			ME3: AN	INE TRAIN-I	I (310) VALVES:-		
310	-E-103A Amine Reg				•		
1	Gate Valve	16"		CS / Flanged	Hot Oil to Reboiler FCV-036A Isolation	2	Only onsite
2	Gate Valve	16"		CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	service &
3	Globe Valve	16"		CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	greasing
4	Gate Valve	16"		CS / Flanged	Hot Oil Inlet Reboiler Isolation	1	greasing
5	Gate Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	2	
6	Check Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	1	
310	-E-103B Amine Reg	genera	ator Reb	oiler:-			
1	Gate Valve	16"		CS / Flanged	Hot Oil to Reboiler FCV-036B Isolation	2	Only onsite
2	Gate Valve	16"	300	CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	service &
3	Globe Valve	16"	300	CS / Flanged	Hot Oil to Reboiler (FCV Bypass)	1	greasing
4	Gate Valve	16"		CS / Flanged	Hot Oil Inlet Reboiler Isolation	1	greasing
5	Gate Valve	16"		CS / Flanged	Return/Out let line from reboiler	2	
6	Check Valve	16"	150	CS / Flanged	Return/Out let line from reboiler	1	
310	-V-101 Feed Gas K	O Ves	sel:-	-			
1	Globe valve	1"	600	SS / Flanged	H/C Outlet 310-LCV-002 bypass valve	1	RTJ
310	-P-105A/B Amine C	ircula	tion Pur	np14-12-2018-			
1	Check Valve	10"	900	SS / Flanged	Lean Amine ACP Discharge line NRV's	4	
310	-P-111A/B Cooling	Wate					
1	Check Valve	24"		CS / Flanged	Cooling water Pump discharge NRV's	2	
	•				Total AMINE TRAIN-II VALVES:-	23	
		N	/IE4: HC	T OIL/UTILIT	Y AREA VALVES		
900	-P-102A to J Hot Oi	l Circ	culation	Pump:-			
1	Gate Valve	12"	150	CS / Flanged	Suction / discharge line of pump	10	
	-PCV-005 Raw Fuel	Gas:		<u> </u>			
2	Ball Valve	4"	600	SS / Flanged	Fuel Gas K/O PCV005 Isolating valves	2	Replace
					Total HOT OIL/UTILITY AREA VALVES	12	
					Grand Total	93	

Act #	Tag #	Job Description	Specifications	Tools Required	Remarks	Quantity	Unit Rate in PKR (exclusive of PST/ICT)	Total in PKR (exclusive of PST/ICT)
PSVs G	as Gathering Secti	on			Location			
1	100-PSV-002		Size: 3", Make: Broady		Gas Gathering Area (Well # 19)	1		
2	101-PSV-003		Size: 3", Make: Broady		Gas Gathering Area (Well # 27)	1		
3	105-PSV-004		Size: 3", Make: Broady		Gas Gathering Area (Well # 32)	1		
4	114-PSV-006		Size: 3", Make: Broady		Gas Gathering Area (Well # 20)	1		
5	107-PSV-007		Size: 3", Make: Broady	Crane, Screw Driver Set,	Gas Gathering Area (Well # 21)	1		
6	102-PSV-008	Removing from location, testing in workshop/bench and	Size: 3", Make: Broady	Terminal Screw Drivers,	Gas Gathering Area (Well # 25)	1		
7	104-PSV-009	record "as found set" value (Psig/Bar), disassembling for	Size: 3", Make: Broady	Spanner Set mm/Inch, Hex Key Set, Pressure Source	Gas Gathering Area (Well # 26)	1		
8	108-PSV-010	Lapping trim and overhauling completely (if required),	Size: 3", Make: Broady	2000PSI, Other calibration	Gas Gathering Area (Well # 33)	1		
9	113-PSV-012	assembling, setting (provided by OGDCL) cold set points and reinstallation.	Size: 3", Make: Broady	equipment.	Gas Gathering Area (Well # 22)	1		
10	103-PSV-013	and fornotalitation.	Size: 3", Make: Broady	PSV Test Bench. Consumables.	Gas Gathering Area (Well # 23)	1		
11	106-PSV-014		Size: 3", Make: Broady	Consumables.	Gas Gathering Area (Well # 24)	1		
12	111-PSV-015		Size: 3", Make: Broady		Gas Gathering Area (Well # 29)	1		
13	112-PSV-016		Size: 3", Make: Broady		Gas Gathering Area (Well # 30)	1		
14	109-PSV-017		Size: 3", Make: Broady		Gas Gathering Area (Well # 31)	1		
15	110-PSV-019		Size: 3", Make: Broady		Gas Gathering Area (Well # 28)	1		
PSVs S	lug Catchers Secti	on			Location			
1	211-PSV-001		Size: 2", Make: Broady		Western Slug Catcher	1		
2	211-PSV-002		Size: 2", Make: Broady	Crane, Screw Driver Set,	Western Slug Catcher	1		
3	210-PSV-001	Removing from location, testing in workshop/bench and	Size: 2", Make: Broady	Terminal Screw Drivers, Spanner Set mm/Inch, Hex	Eastern Slug Catcher	1		
4	210-PSV-002	record "as found set" value (Psig/Bar), disassembling for Lapping trim and overhauling completely (if required),	Size: 2", Make: Broady	Key Set, Pressure Source	Eastern Slug Catcher	1		
5	212-PSV-001	assembling, setting (provided by OGDCL) cold set points	Size: 2", Make: Broady	2000PSI, Other calibration equipment.	Central Slug Catcher	1		<b>!</b>
6	212-PSV-002	and reinstallation.	Size: 2", Make: Broady	PSV Test Bench.	Central Slug Catcher	1		
7	250-PSV-001		Size: 2", Make: Broady	Consumables.	Cond/water separator	1		
8	250-PSV-002		Size: 2". Make: Broady		Cond/water separator	1		
	mine Section		,		Location			
1	310-PSV-022		Size: 1", Make: Tai Milano		Feed gas cooler	1		
2	310-PSE-070		Size: 12", Make: Continental Disc		-	1		
			Corporation	4	Feed gas cooler	·		
3	310-PSV-001A		Size: 1.5", Make: Tai Milano		Feed gas Knockout	1		
4	310-PSV-003A		Size: 1", Make: Tai Milano		Feed gas Filter coalescer	1		<b>.</b>
5	310-PSV-004B		Size: 1", Make: Tai Milano		Amine Contactor	1		<b>.</b>
6	310- PSE-071		Size: 16", Make: Continental Disc Corporation		Treated Gas Cooler	1		
7	310-PSV-005A		Size: 1", Make: Tai Milano		Treated gas Knock out	1		
8	310-PSV-006A		Size: 8", Make: Tai Milano	1	Flash Drum	1		
9	310-PSV-006B		Size: 8", Make: Tai Milano		Flash Drum	1		
10	310-PSV-021A		Size: 2", Make: Tai Milano		Lean Amine Cooler	1		
11	310-PSV-24		Size: 1", Make: Tai Milano	Crane, Screw Driver Set,	Lean Amine Cooler	1		
12	310-PSV-007A	Removing from location, testing in workshop/bench and	Size: 1.5", Make: Tai Milano	Terminal Screw Drivers, Spanner Set mm/Inch, Hex	Rich Amine Strainer	1		
13	310-PSV-007B	record "as found set" value (Psig/Bar), disassembling for	Size: 1.5", Make: Tai Milano	Key Set, Pressure Source	Rich Amine Strainer	1		
14	310-PSV-019A	Lapping trim and overhauling completely (if required),	Size: 1.5", Make: Tai Milano	2000PSI, Other calibration	Lean Amine Cartridge filter	1		1
15	310-PSV-019B	assembling, setting (provided by OGDCL) cold set points and reinstallation.	Size: 1.5", Make: Tai Milano	equipment. PSV Test Bench.	Lean Amine Cartridge filter	1		1
16	310-PSV-018	and remstallation.	Size: 1.5", Make: Tai Milano	Consumables.	Charcoal filter	1		
17	310-PSV-011A		Size: 10", Make: Tai Milano		Amine stripper	1		1

		,					
18	310-PSV-012B		Size: 1.5", Make: Tai Milano		XHE	1	
19	310-PSV-009A		Size: 1.5", Make: Tai Milano	Ţ	Lean Amine Strainer	1	
20	310-PSV-008A	1	Size: 4", Make: Tai Milano	7	Surge drum	1	
21	310-PSV-25		Size: 1", Make: Tai Milano		Over head condenser	1	
22	310-PSV-015A		Size: 4", Make: Tai Milano		Reflux drum	1	
23	310-PSV-014		Size: 1", Make: Tai Milano		Amine sump filter	1	
24	310-PSV-016A		Size: 1", Make: Tai Milano		Amine inventory tanks	1	
25	310-PSV-016B		Size: 1", Make: Tai Milano	1	Amine inventory tanks	1	
26	310-PSV-010B	]	Size: 6", Make: Tai Milano		Amine Fin fan cooler	1	
27	310-PSV-030B	]	Size: 1.5", Make: Tai Milano		Antifoam pump	1	
Contro	I Valves Slug Catch	ners & Amine			Location		
1	210-LCV-001		1.5"/600		Eastern Slug Catcher	1	
2	211-LCV-001	1	1.5"/600	<b>-</b>	Central Slug Catcher	1	
3	212-LCV-001	Dismantling, shifting to W/S, body & trim inspection, lapping	1.5"/600	1	Western Slug Catcher	1	
4	300-PCV-033	of plug/seat (if regd.), replacement of kits, actuator integrity	6"/300	Crane, Spanner Set mm/Inch,	Gas to Flare	1	
5	310-PCV-033	testing, , Functional Test,Reassembling, reinstallation and	6"/300	Screw Driver Set, General Tools.	Gas to Flare	1	
6	350-PCV-001	onsite Calibaration.	8"/150	l ools.	Incinrerator Inet Gas	1	
7	960-PCV-005	1	4"/600	7	Glycol Contactor	1	
8	960-PCV-003	]	4"/150	7	Flash Drum	1	
Flow Ti	ransmitters De-Hyd	Iration & Amine			Location		
1	300/310 FIT-003				Feed Gas	2	
2	300/310 FIT-002	Dismantling, shifting to W/S, inspection, replacement of kits,	Annuhar Flaur Transmitters	Crane, Spanner Set mm/Inch, Screw Driver Set, General	Treated gas	2	
3	400/410 FIT-006	, Functional Test, reinstallation and onsite Verification	Annubar Flow Transmitters	Tools.	Dehy Inlet gas	2	
4	400/410 FIT-003	through System.		10013.	Dehy Outlet gas	2	
<b>ESDVs</b>	Amine & Hot Oil Se	ection			Location		
1	900-ESDV-001A			Screw Driver Set, Terminal	Hot oil heater A/B/C/D inlet	4	
2	900-ESDV-002A	Onsite Servicing, Ceaning, Greasing and functional testing and loop verification through CCR	Shutdown Valves	Screw Drivers, Spanner Set mm/Inch, Multimeter,	Hot oil heater A/B/C/D outlet	4	
3	310/300-ESDVs	and loop verification through CCK		consumables	Amine unit 310/300	26	
Transm		Slug Catchers Section			Location		
1	210-LT-001					1	
2	210-LSLL-002				Eastern Slug catcher	1	
3	210-LSHH-002					1	
4	211-LT-001					1	
5	211-LSLL-002				Central Slug catcher	1	
6	211-LSHH-002	]				1	
7	212-LT-001	1		i -			
8	Z1Z-L1-001	l l				1	
	212-LSLL-002			Spanners Set (In/mm)	Western Slug catcher	1 1	
9		On Site internal Cleaning of level Troll and switches, Sensor		Screw Drivers Set, Hex Key	Western Slug catcher		
9	212-LSLL-002 212-LSHH-002	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon	Western Slug catcher	1 1	
	212-LSLL-002		Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Western Slug catcher	1	
10	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon		1 1 1 1	
10 11 12	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Western Slug catcher  Cond. Water Sep	1 1 1 1 1	
10 11 12 13	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001 250-LSHH-001	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,		1 1 1 1 1 1	
10 11 12 13 14	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001 250-LSHH-001 250-LSLL-002	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,		1 1 1 1 1 1 1	
10 11 12 13 14 15	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001 250-LSHH-001 250-LSHH-002	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,		1 1 1 1 1 1 1 1	
10 11 12 13 14 15	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001 250-LSHH-001 250-LSHH-002 250-LSHH-002 250-LT-003	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep	1 1 1 1 1 1 1 1 1	
10 11 12 13 14 15 16	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001 250-LSLL-002 250-LSLL-002 250-LSHH-002 250-LS-002 250-LS-003	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,		1 1 1 1 1 1 1 1 1 1	
10 11 12 13 14 15	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-002 250-LSLL-001 250-LSHH-001 250-LSHH-002 250-LSHH-002 250-LT-003	cleaning and setting, Field signal electric connection	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep	1 1 1 1 1 1 1 1 1	
10 11 12 13 14 15 16 17	212-LSLL-002 212-LSHH-002 250-LT-001 250-LSLL-001 250-LSLL-001 250-LSLL-002 250-LSLL-002 250-LSHH-002 250-LS-003 212-LSHH-003 nitters & Switches	cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep	1 1 1 1 1 1 1 1 1 1 1 1	
10 11 12 13 14 15 16 17 18 <b>Transm</b>	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-001 250-LSLL-001 250-LSLL-001 250-LSLL-002 250-LSLL-002 250-LSLL-003 212-LSHH-003 nitters & Switches A	cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep  Cond.Degassing Boot  Location	1 1 1 1 1 1 1 1 1 1 1 1 1	
10 11 12 13 14 15 16 17 18 <b>Transm</b>	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-001 250-LSLL-001 250-LSLL-001 250-LSLL-002 250-LSLL-002 250-LSLL-003 212-LSHH-003 212-LSHH-003 310/300-LT-002 310/300-LSLL-002	cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep  Cond.Degassing Boot	1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10 11 12 13 14 15 16 17 18 <b>Transm</b>	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-001 250-LSLL-001 250-LSLL-001 250-LSLL-002 250-LSHH-002 250-LSLL-003 250-LSLL-003 212-LSHH-003 nitters & Switches / 310/300-LSLL-002 310/300-LSHL-002	cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep  Cond.Degassing Boot  Location	1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2	
10 11 12 13 14 15 16 17 18 <b>Transm</b>	212-LSLL-002 212-LSHH-002 250-LT-001 250-LT-001 250-LSLL-001 250-LSLL-001 250-LSLL-002 250-LSLL-002 250-LSLL-003 212-LSHH-003 212-LSHH-003 310/300-LT-002 310/300-LSLL-002	cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.	Transmitter & Switches	Screw Drivers Set, Hex Key set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon tube of 1" dia, 10 meter,	Cond. Water Sep  Cond.Degassing Boot  Location	1 1 1 1 1 1 1 1 1 1 1 1 1 1	

		i			F11: 0 1			
5	310/300-LSLL-003				Filter Coalescer	2		
6	310/300-LSHH-003			-		2	-	
7 8	310/300-LSLL-014 310/300-LSHH-014				Amine Contactor	2		
9	310/300-L3HH-014 310/300-LT-008 A/B			-		2		
10	310/300-LSLL-008A/B				Reboiler A/B	2		
11	310/300-LSHH-008A/B					2		
12	310/300-LT-004					2		
13	310/300-LSLL-004			Spanners Set (In/mm)	Surge Vessel	2		
14	310/300-LSHH-004	On Site internal Cleaning of level Troll and switches, Sensor		Screw Drivers Set, Hex Key	-	2		
15	990-LT-001	cleaning and setting, Field signal electric connection	Transmitter & Switches	set, Multi-meter, Pipe Wrench		1		
16	990-LSLL-001	checking, Calibration verifications, loop testing.		18", 12", Transparent nylon tube of 1" dia, 10 meter,	Flare Knockout Vessel	1		
17	990-LSHH-001			length, HART Communicator	Tidle Milotout Vessel	1		
				-				
18	310/300-LT-006					2		
19	310/300-LT-005					2		
20	310/300-LSHH-005				Amine Flash Vessel	2		
21	310/300-LSHH-006					2		
22	310/300-LSLL-005					2		
23	310/300-LSLL-006					2		
24	310/30-LIT-011					2		
25	310/300-LSHH-011				Amine Reflux Vessel	2		
26	310/300-LSLL-011					2		
27	310/300-LIT-009				Amine Stripper	2		
Transm	itters & Switches D	Pe-hydration Section			Location			
1	410/400 LSLL-001	,				2		
2	410/400 LSHH-001				Glycol contactor T-101	2		
3	410/400 LSLL-002					2		
4	410/400LSHH-002					2		
5	410/400 LSLL-005					2		
6	410/400 LSHH-005				Flash drum V-103	2		
7	410/400 LIT-005			Spanners Set (In/mm)		2		
8	410/400 LSLL-006	On Site internal Cleaning of level Troll and switches, Sensor		Screw Drivers Set, Hex Key		2		
9	410/400 LSHH-006	cleaning and setting, Field signal electric connection	Transmitter & Switches	set, Multi-meter, Pipe Wrench 18", 12", Transparent nylon	Surge Vessel V-104	2		
10	410/400 LIT-006	checking, Calibration verifications, loop testing.		tube of 1" dia, 10 meter,		2		
11	410/400 LSLL-003			length, HART Communicator		2		
12	410/400 LSHH-003				Over head separator V-102	2		
13	410-400-LIT-003					2		
14	410/400 LSLL-007					2		
15	410/400 LSHH-007				Re boiler E-103	2		
16	410/400 LIT-007				TO BOILD E 100	2		
17	400 LIT-009			-	Glycol Storage Tank TK-101	1	1	
	itters & Switches H	lot Oil Section			Location			
		IOL OII GEGLIOII			Location			
1	900 LSLL-004					1	<del>                                     </del>	
2	900 LSHH-004				Expansion Vessel V-102	1	<b>.</b>	
3	900 LIT-004 900-LSLL-001					1	<del>                                     </del>	
5	900-LSLL-001 900 FI-11.01A			Spanners Set (In/mm)		1	<del> </del>	
6	900 FI-11.01A	On Otto Internal Observa of Level Trail and artists		Screw Drivers Set, Hex Key	Kev	1	<b>+</b>	
7	900 FI-11.01C	On Site internal Cleaning of level Troll and switches, Sensor	Transmitter & Switches	set, Multi-meter, Pipe Wrench	nch Fuel Gas to Heaters	1	1	
8	900 FI-11.01D		ansmitter a owneries	18", 12", Transparent nylon	t nylon	1		
9	900 LIT-002	J		tube of 1" dia, 10 meter, length, HART Communicator	Sump Vessel V-101	1		
	l l	Į.		gan, Communicator L				

		_					
10	900 FI-014A					1	
11	900 FI-014B				Hot Oil Flow	1	
12	900 FI-014C					1	
13	900 FI-014D					1	
Miscell	laneous Jobs				Location		
1	Flash Drum 310 FT-005	Replacement of Faulty FT			Amine T-310	1	
2	Incinrerator primary blowers actuators caliberation/feedback	On Site internal Cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.		Screw Driver Set, Terminal	Incinrerator	2	
3	All Heaters Blower damper and top damper actuator calibration/servicing at Hot Oil	On Site internal Cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.	Blowers, Dampers, O2 Analyzers	Screw Drivers, Spanner Set mm/Inch, Multimeter, consumables, HART Communicator	Hot oil	8	
4	All O2 analyzers, conductivity meters caliberation/servicing at Hot Oil	On Site internal Cleaning and setting, Field signal electric connection checking, Calibration verifications, loop testing.			Amine T300/310/Hot oil	10	
		Gran	d Total in PKR (exclusiv	e of PST/ICT)	_		

### OIL & GAS DEVELOPMENT COMPANY LIMITED UCH GAS PROCESSING PLANT UCH-II - ATA 2019 (ELECTRICAL SCOPE OF WORK)

		001107	45 PROCESSING PLANT UCH-II - ATA 2019 (ELECTR	TOAL GOO! L'O! WORK!)	•	
Act #	Tag #.	Job Description	Specifications	Location	Quantity	Unit Rate in PKR (exclusive of PST/ICT)
SWITC	HGEAR ROOM:					
HT SW	ITCH GEAR (SIEME	NS)				
1	VCB GEN-01	H.T.Modules	Incomer of GT 1		1	
2	VCB GEN-02	Inspection, Servicing, Cleaning of VCB's,	Incomer of GT 2	MCC ROOM	1	
3	VCB GEN-03	greasing of moving parts, Tightening of Power	Incomer of GT 3	SIEMENS HT SWITCH GEAR	1	
3	TVOD GEN 60	Points & all control connections.			'	
	Інт-вв		HT SWITCH GEAR (BUS BAR)	MCC ROOM	l	1
4	П1-ББ	General Inspection, nut bolt Torqueing / servicing and cleaning of Bus Bars.	HT Bus Bar A (6.6 KV, 3150 Amps, 40 KAIC, 50 HZ)	SCHNIEDER ELECTRIC HT SWITCH GEAR	1	
	1		HT SWITCH GEAR (SCHNEIDER)	<u> </u>	1	
5	300-P105-A		AMINE CIRCULATION PUMP MOTOR A (HT Bus B L22)		1	
6	300-P105-B		AMINE CIRCULATION PUMP MOTOR B (HT Bus B L23)	1	1	
7	310-P105-A	1	AMINE CIRCULATION PUMP MOTOR A (HT Bus A L08)	7	1	
8	310-P105-B		AMINE CIRCULATION PUMP MOTOR B (HT Bus A L09)		1	
9	900-P102-A		HOT OIL PUMP MOTOR A (HT Bus A L06)	_	1	
10	900-P102-B		HOT OIL PUMP MOTOR B (HT Bus A L05)		1	
11	900-P102-C		HOT OIL PUMP MOTOR C (HT Bus A L04)		1	
12	900-P102-D		HOT OIL PUMP MOTOR D (HT Bus A L03)		1	
13	900-P102-E		HOT OIL PUMP MOTOR E (HT Bus B L24)		1	
14	900-P102-F		HOT OIL PUMP MOTOR F (HT Bus B L25)	MCC ROOM	1	
15	900-P102-G	H.T.Modules	HOT OIL PUMP MOTOR G (HT Bus B L26)		1	
16	900-P102-H	Inspection, Servicing, Cleaning of VCB's,	HOT OIL PUMP MOTOR H (HT Bus B L27)	SCHNIEDER ELECTRIC HT SWITCH	1	
17	900-P102-I	greasing of moving parts, Tightening of Power Points & all control connections.	HOT OIL PUMP MOTOR I (HT Bus A L02)	GEAR	1	
18 19	900-P102-J VCB-UCH-I	Folitis & all control connections.	HOT OIL PUMP MOTOR J (HT Bus B L28) Incomer Feeder from UCH-I (HT Bus A L11)	-	1	
20	VCB-UCH-I	-	Outgoing Feeder for Transformer 1 (HT Bus A L11)	-	1	
21	VCB-TRAFO 1	-	Outgoing Feeder of Transformer 1 (HT Bus A LT0)  Outgoing Feeder of Transformer 2 (HT Bus B L21)	-	1	
22	HT-SP-FD-03	-	Uch Resedential Colony Feeder 220 KW (HT Bus A L01)	-	1	
23	HT-BC-01	†	Bus Coupler 1 (HT Bus A L13)	-	1	
24	HT-BC-02	†	Bus Coupler 2 (HT Bus B L19)		1	
25	300-MVSS-A		Soft Starter AMINE CIRCULATION PUMP MOTOR A (HT Bus B)	1	1	
26	300-MVSS-B	1	Soft Starter AMINE CIRCULATION PUMP MOTOR B (HT Bus B)	1	1	
27	310-MVSS-A	1	SOFT STARTER AMINE CIRCULATION PUMP MOTOR A (HT Bus A)	7	1	
28	310-MVSS-B	<u>                                     </u>	SOFT STARTER AMINE CIRCULATION PUMP MOTOR B (HT Bus A)		1	
ACB's						
29	BUSB-6300A- ACB		LT Main Incomer ACB of Transformer B (LT Bus B R1-P19)		1	
30	BUSA-6300A- ACB	Servicing/greasing of moving parts/general	LT Main Incomer ACB of Transformer A (LT Bus A R1-P16)	MCC ROOM	1	
31	LT-BC-A/B	cleaning, Function testing of ACBs	LT ACB 6300 Amps, Bus Coupler A/B (R1-P17)	SCHNIEDER ELECTRIC LT SWITCH	1	
32	LT-BC-B/C	<u> </u>	LT ACB 4000 Amp, Bus Coupler B/C (R4-P12)	GEAR	1	
33	ATS-PNL-01		ACB 1600 Amp ATS Incomer and Controller (LT Bus C R4-P05)		1	
LISW	ITCH GEAR (BUS B	AK)	LT Due Dee (0.410), 0000 Arres 400 (/AIO 50 LIZ)	1	ı	
34	LT-BB	General Inspection, nut bolt Torqueing / servicing and cleaning of Bus Bars.	LT Bus Bar (0.4 KV, 6300 Amps, 100 KAIC, 50 HZ)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR	1	
<b>AMINE</b>	TRAIN-I					
35	300-C101-1A to 2H		AIR COOLER FAN MOTOR PANELS (11KW VFD )		16	
36	300-C103-A	]	LEAN AMINE COOLER FAN MOTOR A (37KW VFD LT Bus A R1-P12)		1	
37	300-C103-B	]	LEAN AMINE COOLER FAN MOTOR B (37KW VFD LT Bus A R1-P11)	╛	1	

38 300-C10	C103-C		LEAN AMINE COOLER FAN MOTOR C (37KW VFD LT Bus A R1-P10)		1	
39 300-C10	C103-D		LEAN AMINE COOLER FAN MOTOR D (37KW VFD LT Bus A R1-P09)		1	
40 300-P10	2104-Δ		AMINE BOOSTER PUMP MOTOR A (ASD LT Bus B R1-P23)		1	
41 300-P10		L.T. Modules	AMINE BOOSTER PUMP MOTOR B (ASD LT Bus B R1-P25)		1	
42 300-P10		Inspection, Servicing, Cleaning of Thermal	REGENERATOR REFLEX PUMP MOTOR A (LT Bus B R1-P24)	MCC ROOM	1	
43 300-P10		Relays, Aux. Contactors and Power Points,	REGENERATOR REFLEX PUMP MOTOR A (LT Bus B R1-P24)	SCHNIEDER ELECTRIC LT SWITCH	1	
		Tightening of all connections.		GEAR		
44 300-P10			AMINE TRANSFER PUMP MOTOR A (LT Bus A R4-P02)		1	
45 300-P10			AMINE TRANSFER PUMP MOTOR B (LT Bus A R3-P15)		1	
46 300-P10			AMINE SUMP PUMP MOTOR (LT Bus B R1-P20)		1	
47 300-P1			ANTI FOAM INJECTION PUMP MOTOR		1	
48 300-P1	P110-B		ANTI FOAM INJECTION PUMP MOTOR		1	
49 300-P1	P111-A		COOLING WATER PUMP MOTOR A (185KW VFD LT Bus B R3-P17)		1	
50 300-P1	P111-B		COOLING WATER PUMP MOTOR B (185KW VFD LT Bus B R1-P21)		1	
<b>AMINE TRAIN-</b>	N-II					
51 310-C10	C101-1A to 2H		AIR COOLER FAN MOTOR 1A (11KW VFD )		16	
52 310-C10			LEAN AMINE COOLER FAN MOTOR A (37KW VFD LT Bus A R1-P08)		1	
53 310-C10			LEAN AMINE COOLER FAN MOTOR B (37KW VFD LT Bus A R1-P05)		1	
54 310-C10			LEAN AMINE COOLER FAN MOTOR C (37KW VFD LT Bus A R1-P02)		1	
55 310-C10			LEAN AMINE COOLER FAN MOTOR D (37KW VFD LT Bus A R1-P03)		1	
56 310-C10		L.T. Modules Inspection, Servicing, Cleaning, Testing of	AMINE BOOSTER PUMP MOTOR A (ASD LT Bus A R2-P03)		1	
					1	
57 310-P10			AMINE BOOSTER PUMP MOTOR B (ASD LT Bus A R3-P11)	MCC ROOM		
58 310-P10			REGENERATOR REFLEX PUMP MOTOR A (LT Bus A R3-P15)	SCHNIEDER ELECTRIC LT SWITCH	1	
59 310-P10		Power Points, Tightening of all connections.	REGENERATOR REFLEX PUMP MOTOR B (LT Bus A R3-P14)	GEAR	1	
60 310-P10		3 to 1 to 1, 3 to 3 to 1 to 1 to 1	AMINE TRANSFER PUMP MOTOR A (LT Bus A R3-P13)		1	
61 310-P10			AMINE TRANSFER PUMP MOTOR B (LT Bus A R3-P12)		1	
62 310-P10	2109		AMINE SUMP PUMP MOTOR (LT Bus A R3-P12)		1	
63 300-P1	P110-A		ANTI FOAM INJECTION PUMP MOTOR		1	
				4		
64 300-P1	P110-B		ANTI FOAM INJECTION PUMP MOTOR		1	
64 300-P1 <sup>2</sup>			ANTI FOAM INJECTION PUMP MOTOR COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01)		1	
	P111-A					
65 310-P1 <sup>2</sup>	P111-A		COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01)		1	
65 310-P11 66 310-P11 INCINERATOR	P111-A P111-B OR MODULES		COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)		1	
65 310-P1 <sup>2</sup> 66 310-P1 <sup>2</sup> <b>INCINERATOR</b> 67 350-C10	P111-A P111-B DR MODULES C101-A		COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15)		1 1	
65 310-P1° 66 310-P1° <b>INCINERATOR</b> 67 350-C10 68 350-C10	P111-A P111-B DR MODULES C101-A C101-B	L.T. Modules	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13)	MCC ROOM	1 1 1	
65 310-P1 66 310-P1 INCINERATOR 67 350-C10 68 350-C10 69 350-C10	P111-A P111-B DR MODULES C101-A C101-B C102-A	Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2-	MCC ROOM	1 1 1 1 1 1	
65 310-P1' 66 310-P1' INCINERATOR 67 350-C10 68 350-C10 70 350-C10	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT BUS A R2-INCINERATOR SECONDARY B (55 KW S.S LT B (55 KW	SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1	
65 310-P1* 66 310-P1* <b>INCINERATOR</b> 67 350-C10 68 350-C10 70 350-C10 71 350-C10	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C	Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 KW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-		1 1 1 1 1 1 1 1	
65 310-P1* 66 310-P1* <b>INCINERATOR</b> 67 350-C10 69 350-C10 70 350-C10 71 350-C10 72 350-C10	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16)	SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1	
65 310-P1 66 310-P1 INCINERATO 67 350-C1 69 350-C1 70 350-C1 71 350-C1 72 350-C1 73 350-C1	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 KW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-	SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: INCINERATO 67 350-C1( 68 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 350-C1( 75 350-C1(  75 350-C1(  76 350-C1(  77 350-C1(  77 350-C1(  78 350-C1(  78 350-C1(  78 350-C1(  78 350-C1(	P111-A P111-B DR MODULES D101-A D101-B D102-A D102-B D102-C D103-A D103-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)	SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: INCINERATOR 67 350-C1( 68 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1(  74 400-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14)	SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: INCINERATOR 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13)	SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: INCINERATO 67 350-C1( 69 350-C1( 71 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 76 400-P1(	P111-A P111-B DR MODULES D101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 KW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL MAKE-UP PUMP MOTOR (LT Bus B R1-P26)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM	1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 73 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 77 410-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-A P101-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL MAKE-UP PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R3-P08)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 78 410-P1( 78 410-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-A P101-B P101-A P101-B P101-A P101-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM	1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATOR 67 350-C1( 68 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 76 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-B P101-A P101-B P101-A P101-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL MAKE-UP PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R3-P08)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 78 410-P1( 78 410-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-B P101-A P101-B P101-A P101-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATOR 67 350-C1( 68 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 76 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1(	P111-A P111-B P111-B P111-B P101-B P101-B P102-A P101-B P103-B P101-A P101-B P1	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: INCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 19 410-P1( 19 410-P1( 19 140-P1(	P111-A P111-B PR MODULES DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P104 P101-A P101-B P102 P102 MODULES C52-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R3-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P08) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 73 350-C1( 74 350-C1( 75 350-C1( 77 350-C1( 77 350-C1( 78 400-P1( 79 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P111-A P111-B P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-B P101-B P101-B P101-B P101-B P102-B P101-B P102-B P103-B P103-B P104-B P105-B P105-	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16)  INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 66 310-P1: INCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 76 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 79 410-P1( 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P101-B P101-B P101-B P102 MODULES C52-A C52-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Thermal Relays, Aux. Contactors,	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P08) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor B (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor C (LT Bus A R3-P08)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: INCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 350-C1( 75 400-P1( 76 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 79 410-P1( 179 410-P1	P111-A P111-B P111-B P111-B P101-A P101-B P101-B P102-B P101-B P1	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2-INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R3-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P08) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor D (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor D (LT Bus B R1-P20)	SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATO 67 350-C1( 69 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 350-C1( 75 400-P1( 77 410-P1( 78 410-P1( 80 900-C5; 81 900-C5; 82 900-C5; 83 900-C5; 84 900-P1(	P111-A P111-B PR MODULES DIO1-A P101-B P102-A P102-B P103-B P101-A P101-B P101-A P101-B P104 P101-A P101-B P102 MODULES P252-A P352-B P352-B P352-B P352-D P101	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P08) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor B (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor C (LT Bus A R3-P08)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 1NCINERATO 67 350-C1( 69 350-C1( 71 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 70 410-P1(	P111-A P111-B PR MODULES DIA MODULES C101-A C101-B C102-A C102-C C103-A C103-B P101-A P101-B P101-A P101-B P101-A P101-B P102-B C52-B C52-C C52-D P101 E KNOCKOUT L	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 KW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P08) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor C (LT Bus A R3-P07) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 66 310-P1: INCINERATO 67 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P111-A P111-B PR MODULES DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P104 P101-B P105 P105 P106 P107 P107 P108 P108 P109 P109 P109 P109 P109 P109 P109 P109	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  V MODULES  L.T. Modules	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P13) Hot Oil FD Blower Fan Motor C (LT Bus A R3-P07) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil Make-up Pump Motor (LT Bus B R4-P15)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 66 310-P1: INCINERATO 67 350-C1( 69 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 76 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 79 410-P1( 79 410-P1( 10 410-P1(	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P104 P101-B P102 MODULES C52-A C52-B C52-C C52-D P101 P101-B P104 P101-B P109 P109 P109 P109 P109 P109 P109 P109	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  V MODULES  L.T. Modules Inspection, Servicing, Cleaning, Testing of	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR A (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16)  GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P08) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P08) Hot Oil FD Blower Fan Motor C (LT Bus A R3-P07) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil Make-up Pump Motor (LT Bus B R4-P15)  Slop Pump Motor A (LT Bus A R3-P11) Slop Pump Motor B (LT Bus B R1-P20)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
65 310-P1: 66 310-P1: 66 310-P1: INCINERATO 67 350-C1( 70 350-C1( 71 350-C1( 72 350-C1( 73 350-C1( 74 400-P1( 75 400-P1( 77 410-P1( 78 410-P1( 79 410-P1( 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P111-A P111-B DR MODULES C101-A C101-B C102-A C102-B C102-C C103-A C103-B P101-A P101-B P104 P101-B P102 MODULES C52-A C52-B C52-C C52-D P101 P101-B P104 P101-B P109 P109 P109 P109 P109 P109 P109 P109	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  L.T. Modules Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors, Power Points, Tightening of all connections.  V MODULES  L.T. Modules	COOLING WATER PUMP MOTOR A (185KW VFD LT Bus A R1-P01) COOLING WATER PUMP MOTOR B (185KW VFD LT Bus A R2-P01)  INCINERATOR PRIMARY BLOWER MOTOR A (132 KW S.S LT Bus A R1-P15) INCINERATOR PRIMARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR B (132 kW S.S LT Bus A R1-P13) INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR B (55 KW S.S LT Bus A R2- INCINERATOR SECONDARY BLOWER MOTOR C (55 KW S.S LT Bus A R2- INCINERATOR PILOT BLOWER A (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R2-P16) INCINERATOR PILOT BLOWER B (LT Bus A R3-P14) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus A R3-P13) GLYCOL CIRCULATION PUMP MOTOR A (LT Bus B R1-P26) GLYCOL CIRCULATION PUMP MOTOR B (LT Bus B R1-P27) GLYCOL SUMP PUMP MOTOR (LT Bus B R1-P25)  Hot Oil FD Blower Fan Motor A (LT Bus A R3-P13) Hot Oil FD Blower Fan Motor C (LT Bus A R3-P07) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil FD Blower Fan Motor C (LT Bus B R1-P20) Hot Oil Make-up Pump Motor (LT Bus B R4-P15)	MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR  MCC ROOM SCHNIEDER ELECTRIC LT SWITCH GEAR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

88	990-P101-B	Power Points, Tightening of all connections.	Flare Knock Out Drum Pump Motor B (LT Bus A R3-P07)	VEAN	1	
	Y AREA MODULES	1 ower 1 onte, rightening of an conficutions.	Traile Knock Out Drain Famp Motor B (ET Bas A K3-F07)		<u> </u>	
89	920-P102-A		RAW WATER PUMP MOTOR A (LT Bus A R2-P11)		1 1	
90	930-P102-B	L.T. Modules	RAW WATER PUMP MOTOR B (LT Bus A R2-P16)		1	
91	930-P103-A	Inspection, Servicing, Cleaning, Testing of	UTILITY WATER PUMP MOTOR A (LT Bus A R2-P08)	MCC ROOM	1	
92	930-P103-B	Contactors, Thermal Relays, Aux. Contactors,	UTILITY WATER PUMP MOTOR B (LT Bus A R3-P12)	SCHNIEDER ELECTRIC LT SWITCH	1	
93	930-P104-A	Power Points, Tightening of all connections.	DIMIN WATER PUMP MOTOR A (LT Bus A R3-P15)	GEAR	1	
94	930-P104-B	r errei r enne, riginerning er an eermeenene	DIMIN WATER PUMP MOTOR B (LT Bus A R3-P14)		1	
	ENSATE & HSD MOD	OIII FS	BINIIN WATER FORE MOTOR B (ET BUS A RO-FT4)		<u> </u>	
95	250-P101-A	L.T. Modules	Condensate Transfer Pump Motor A (LT Bus B R1-P26)		1	
96	250-P101-B	Inspection, Servicing, Cleaning, Testing of	Condensate Transfer Pump Motor B (LT Bus A R3-P14)	MCC ROOM	1	
97	800-P101-A	Contactors, Thermal Relays, Aux. Contactors,	HSD Pump Motor A (LT Bus A R2-P03)	SCHNIEDER ELECTRIC LT SWITCH	1	
98	800-P101-B	Power Points, Tightening of all connections.	HSD Pump Motor B (LT Bus A R4-P02)	GEAR	1	
	EDERS	3	The Frank Motor B (ET Bas / Tri Tri DE)			
	FD-LT-01		16 A Flood Lighting Feeder		1	
100	410-HT-002-FD		Feeder Self Regulating Cable (LT Bus B R2-P19)		1	
101	410-HT-001-FD		Feeder Self Regulating Cable (LT Bus B R2-P19)		1	
102	DB-GR1		Feeder Guard Room-1 (LT Bus B R2-P19)		1	
103	FD-IS-05		Industrial Socket 63A Feeder (LT Bus B R2-P20)		1	
104	FD-IS-03		Industrial Socket 63A Feeder (LT Bus B R2-P20)		1	
105	DB-GR2 FEEDER		Guard room-2 Feeder (LT Bus B R2-P21)		1	
106	DB-OPR-FD-01		Operator Room 50.52 A Feeder (LT Bus B R2-P21)		1	
107	FD-IS-06		Industrial Socket 63A Feeder (LT Bus B R2-P21)		1	
108	FD-IS-04		Industrial Socket 63A Feeder (LT Bus B R2-P21)		1	
109	DB-ADM-FD-01		Admin Building 252.6A Feeder (LT Bus B R2-P21)		1	
110	DB-GR3 FEEDER		Guard Room-3 Feeder (LT Bus B R2-P22)		1	
111	FD-IS-08		Industrial Socket 63A Feeder (LT Bus B R2-P22)		1	
112	DB-ADM-FD-02		Admin Building 252.6A Feeder (LT Bus B R2-P22)		1	
113	300-LCP-104-FD		Control Injection Station LCP Feeder (LT Bus A R4-P03)		1	
114	310-LCP-104-FD		Control Injection Station LCP Feeder (LT Bus A R4-P03)		1	
115	920-P-102-B-FD		Diesel Engine Driven Pump Controller Feeder (LT Bus A R4-P03)		1	
116	LTDB-1 FEEDER		MCC Room Lighting Distribution Board 200A Feeder (LT Bus C R4-P06)		1	
117	980-C101-FD		Nitrogen Package, 122 KW Feeder (LT Bus C R4-P06)		1	
118	WHRU-MCC-FD		WHRU-MCC Feeder, 250 KW Feeder (LT Bus C R4-P06)		1	
119	LTDB-3 FEEDER		MCC Room Lighting Distribution No.3, 75 A Feeder (LT Bus C R4-P07)		1	
120	LTDB-2 FEEDER		CCR Room Lighting Distribution Board 2, 200 A Feeder (LT Bus C R4-P07)		1	
121	UPS-01-FD		UPS Supply, 80 KW Feeder (LT Bus C R4-P07)		1	
122	CPI 1 FEEDER		6KW Feeder (LT Bus C R4-P09)		1	
123	CPI 2 FEEDER		6 KW Feeder (LT Bus C R4-P09)		1	
124	970-C101-FD		Instrument Air Package 185 KW Feeder (LT Bus C R4-P09)		1	
125	310-RCT-401-FD		HSS Rectifier 5 KW Feeder (LT Bus A R4-P02)		1	
126	300-LCP-102-FD	L.T. Modules	Biocide and Injection Station LCP 2 KW Feeder (LT Bus A R4-P02)	MCC ROOM	1	
127	920-P102-A-FD		Diesel Engine Driven Pump Controller 4.6 KW Feeder (LT Bus A R4-P02)	SCHNIEDER ELECTRIC LT SWITCH	1	
128	920-P103-A-FD	Inspection, Cleaning and Tightening of all connections.	Electric Motor Driven Jockey Pump Controller 25 KW Feeder (LT Bus A R4-P02)	GEAR	1	
129	MV-CNTRL-SS-01	connections.	Control Supply of MV Soft Starers 25KW Feeder (LT Bus A R3-P03)	GEAR	1	
130	400-HT-002-FD		Self Regulating Cable 1.5 KW Feeder (LT Bus A R3-P04)		1	
131	E-103A		Electric Heater 3 KW Feeder (LT Bus A R3-P04)		1	
132	FGS-SKD-01		Foam Generating Skid Motor 22 KW Feeder (LT Bus A R3-P04)		1	
133	400-HT-001-FD		Self Regulating Cables 1.5 KW Feeder (LT Bus A R3-P05)		1	
134	950-P101-FD		Oily Water Package 25 KW Feeder (LT Bus A R3-P05)		1	
135	950-P102-FD		Raw Water Treatment Multimedia Filter Package 130 KW Feeder (LT Bus A R3-		1	
136	LDB-INCOM-01		Main Lighting Distribution Board 630 A (LT Bus B R2-P19)		1	
137	300-RCT-401-FD		HSS Rectifier 5 KW Feeder (LT Bus A R3-P06)		1	
138	4 TON A/C'S SUPPL		Power Supply of Floor Standing A/C Units 25 KW Feeder (LT Bus A R3-P06)		1	
139	920-P101-A-FD		Electric Motor Driven Fire Water Pump Controller 160 KW Feeder (LT Bus A R3-		1	

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140 DB-WT4	T4 FEEDER		Watch Tower 4, 25 A Feeder (LT Bus B R3-P22)		1	
141 FD-IS-01			Industrial Socket 63A Feeder (LT Bus B R3-P22)		1	
142 FD-IS-02			Industrial Socket 63A Feeder (LT Bus B R3-P22)		1	
143 FD-IS-09			Industrial Socket 63A Feeder (LT Bus B R3-P22)		1	
144 SGT 1-M	-MCC-FD		555 KW Feeder of SGT MCC-1 (LT Bus C R4-P10)		1	
145 SGT 2 M	MCC-FD		555 KW Feeder of SGT MCC-2 (LT Bus C R4-P10)		1	
146 SGT 3-M	-MCC-FD		555 KW Feeder of SGT MCC-3 (LT Bus C R4-P11)	1	1	
147 900-HT-0	Γ-01-FD		Hot Oil Heat Trace Supply of Hot Oil,186KW Amp Feeder (LT Bus A R3-P04)		1	
148 900-HT-0	Γ-02-FD		Hot Oil Heat Trace Supply, 200 Amp Feeder (LT Bus B R3-P22)	1	1	
149 FD-IS-07			Industrial Socket 63A Feeder (LT Bus B R2-P22)	1	1	
150 LDB-INC			Main Lighting Distribution Board 630 A (LT Bus B R2-P19)	1	1	
151 LDB-A-F			LDB-A 100 Amp (Lighting Bus R4)	1	1	
152 LDB-B-F			LDB-B 125 Amp (Lighting Bus R4)	1	1	
153 LDB-C-F			LDB-C 160 Amp (Lighting Bus R4)	1	1	
154 LDB-D-F			LDB-D 125 Amp (Lighting Bus R4)	†	1	
155 MLDB-M			Main Lighting Distribution Board (Incomer 630 Amp)	1	1	
156 300-HT-			Heat Tracing Power Supply 1.5 KW Feeder (LT Bus A R3-P06)	1	1	
	ICC LV MODULES	e	Ineat fracing Fower Supply 1.5 KW Feeder (LT bus A K3-F00)		ı	
,		<b>.</b>	Audiliand the Oil Duran Mater (CCT 4 MCC)	T	1 4	
157 XM1-SG			Auxiliary Lube Oil Pump Motor (SGT-1 MCC)	-	1	
158 XM1-SG			Auxiliary Lube Oil Pump Motor (SGT-2 MCC)	-	1	
159 XM1-SG			Auxiliary Lube Oil Pump Motor (SGT-3 MCC)	4	1	
160 XM105-S			Liquid fuel Treatment Skid Motor (SGT-1 MCC)	4	1	
161 XM105-S			Liquid fuel Treatment Skid Motor (SGT-2 MCC)	4	1	
162 XM105-S			Liquid fuel Treatment Skid Motor (SGT-3 MCC)		1	
163 XM11-S0			Air Blast Lube Oil Cooler Fan Motor A (SGT-1 MCC)		1	
164 XM11-S0			Air Blast Lube Oil Cooler Fan Motor A (SGT-2 MCC)		1	
165 XM11-S0			Air Blast Lube Oil Cooler Fan Motor A (SGT-3 MCC)		1	
166 XM19-S0			Secondary Air Fan Motor(SGT-1 MCC)		1	
167 XM19-S0			Secondary Air Fan Motor (SGT-2 MCC)		1	
168 XM19-S0			Secondary Air Fan Motor (SGT-3 MCC)		1	
169 XM24-S0	SGT1		Liquid Fuel Treatment Forwarding Skid Motor (SGT-1 MCC)		1	
170 XM24-S0	SGT2		Liquid Fuel Treatment Forwarding Skid Motor (SGT-2 MCC)		1	
171 XM24-S0	SGT3		Liquid Fuel Treatment Forwarding Skid Motor (SGT-3 MCC)		1	
172 XM3-SG	GT1		Hydraulic Start System Pump Motor (SGT-1 MCC)		1	
173 XM3-SG	GT2		Hydraulic Start System Pump Motor (SGT-2 MCC)		1	
174 XM3-SG	GT3		Hydraulic Start System Pump Motor (SGT-3 MCC)		1	
175 XM33-S0	SGT1		Air Blast Lube Oil Cooler Fan Motor B (SGT-1 MCC)	]	1	
176 XM33-S0	SGT2	L.T. Modules	Air Blast Lube Oil Cooler Fan Motor B (SGT-2 MCC)	]	1	
177 XM33-S0		Inspection, Servicing, Cleaning, Testing of	Air Blast Lube Oil Cooler Fan Motor B (SGT-3 MCC)	MCC ROOM	1	
178 XM42-S0		ontactors, Thermal Relays, Aux. Contactors,	Vent Filter Bleed Fan Motor (SGT-1 MCC)	SIEMENS LV MCC PANEL	1	
179 XM42-S0		Power Points, Tightening of all connections.	Vent Filter Bleed Fan Motor (SGT-2 MCC)	1	1	
180 XM42-S0		- <del>-</del>	Vent Filter Bleed Fan Motor (SGT-3 MCC)	1	1	
181 XM5-SG			Liquid Fuel Pump Motor (SGT-1 MCC)	1	1	
182 XM5-SG			Liquid Fuel Pump Motor (SGT-2 MCC)	1	1	
183 XM5-SG			Liquid Fuel Pump Motor (SGT-3 MCC)	1	1	
184 XM52-S0			Generator CACA Fan A (SGT-1 MCC)	1	1	
185 XM52-S0			Generator CACA Fan A (SGT-T MCC)	1	1	
186 XM52-S0			Generator CACA Fan A (SGT-2 MCC)	1	1	
187 XM53-S0			Generator CACA Fan B (SGT-1 MCC)	1	1	
188 XM53-S0			Generator CACA Fan B (SGT-1 MCC)	1	1	
189 XM53-S0			Generator CACA Fan B (SGT-2 MCC) Generator CACA Fan B (SGT-3 MCC)	1	1	
				-	1	
190 XM6-SG			Main Enclosure Vent Fan (SGT-1 MCC)	-		
191 XM6-SG			Main Enclosure Vent Fan (SGT-2 MCC)	4	1	
192 XM6-SG			Main Enclosure Vent Fan (SGT-3 MCC)	-	1	
193 XM7-SG	ווט		Standby Enclosure Vent Fan (SGT-1 MCC)	∄	1	

194 X	XM7-SGT2		Standby Enclosure Vent Fan (SGT-2 MCC)	1	1	
	XM7-SGT2 XM7-SGT3		Standby Enclosure Vent Fan (SGT-2 MCC)	1	1	
	XM70-SGT3		Air Blast Lube Oil Cooler Fan Motor C (SGT-1 MCC)	-	1	
				4	1	
	XM70-SGT2		Air Blast Lube Oil Cooler Fan Motor C (SGT-2 MCC)	4	1	
	XM70-SGT3		Air Blast Lube Oil Cooler Fan Motor C (SGT-3 MCC)		1 1	
	WHRU-05		OT 4 Ocal Air For Main Mater (4 I/M)	T	1 4 1	
			GT 1 Seal Air Fan Main Motor (4 KW)	4	1	
	WHRU-06		GT 1 Seal Air Fan Stand By Motor (4 KW)	4	1	
	WHRU-07		GT 2 Seal Air Fan Main Motor (4 KW)		1	
	WHRU-08		GT 2 Seal Air Fan Stand By Motor (4 KW)		<u> </u>	
	WHRU-09		GT 3 Seal Air Fan Main Motor (4 KW)	4	1	
	WHRU-10		GT 3 Seal Air Fan Stand By Motor (4 KW)		1	
	IS GAS TURBINES				T . T	
	PMG-SGT1	Checking of Generators' connections, Exciters, &	PMG Exciter of SGT Generator 1		1	
	PMG-SGT2	PMGs. Inspection and removal of dust and webs.	PMG Exciter of SGT Generator 2		1	
	PMG-SGT3	Cleaning & Washing of Generator's Iner/outer	PMG Exciter of SGT Generator 3	POWER GENERATION AREA	1	
	SGT-GEN1	body.	SGT-1 Generator	. C	1	
	SGT-GEN2	200,1	SGT-2 Generator	_	1	
	SGT-GEN3		SGT-3 Generator		1	
	Charger and Batter	ry Bank				
211			24 VDC Battery Chargers and Battery Banks Of SGTs		3	
212		Inspection, Cleaning, Checking And Tightening of	110 VDC Battery Charger and Battery Bank (SIEMENS)	1	1	
		connections, Chargers & Battery bank Cabinets.	,	UPS/Battery Room		
213		Batteries Inspection, load testing, tightening,	110 VDC Battery Charger and Battery Bank (SCHNEIDER)	or or battery recom	1	
213		greasing of connections & Servicing.	TTO VDC Battery Charger and Battery Bank (SCHNEIDER)		'	
lder						
UPS and	d Battery Bank					
1		Inspection/ Preventive maintenance on by pass				
214		mode and general cleaning. Batteries Inspection,	80 KVA UPS & Battery Bank.	UPS Room	1	
214		load testing, tightening, greasing of connections &	ou NVA UPS & Ballery Balik.	UF3 KOOIII	'	
		Servicing.				
DB's		Servicing.				
	LDB-A	Servicing.	LDB-A (Oily Water Area)		1 1	
215 L		Servicing.			1 1	
215 L 216 L	LDB-B	Servicing.	LDB-B (Admin Building Area)	PLANT AREA		
215 L 216 L 217 L		Servicing.	LDB-B (Admin Building Área) LDB-C (Gas Gathering Área)	- PLANT AREA	1	
215 L 216 L 217 L 218 L	LDB-B LDB-C	Servicing.	LDB-B (Admin Building Area)		1 1	
215 L 216 L 217 L 218 L 219 A	LDB-B LDB-C LDB-D ADMIN2-LTDB 01	Servicing.	LDB-B (Admin Building Area) LDB-C (Gas Gathering Area) LDB-D (Dehydration 2 Area) Distribution Board 01 (Admin Building Area)	PLANT AREA UCH-II ADMIN BUILDING	1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02	Servicing.	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)		1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A	Servicing.	LDB-B (Admin Building Área) LDB-C (Gas Gathering Area) LDB-D (Dehydration 2 Area) Distribution Board 01 (Admin Building Area) Distribution Board 01 (Admin Building Area) Local Control Panel of Fire Water Pump A (Utility Area)		1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P101 B	Servicing.	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)	UCH-II ADMIN BUILDING	1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A	Servicing.	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)		1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103-B	-	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)	UCH-II ADMIN BUILDING	1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103-B LCP-950-P102	Inspection, Servicing, Cleaning, Testing of	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)	UCH-II ADMIN BUILDING	1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103-B LCP-920-P103-B LCP-940-P103-B LCP-950-P102 LCP-MMF-LCP-001	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of No Plant (Utility Area)  Local Control Panel of Ro Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)	UCH-II ADMIN BUILDING  UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103-B LCP-950-P102 LCP-9MMF-LCP-001 LCP-950-P101/102	Inspection, Servicing, Cleaning, Testing of	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of RO Plant (Utility Area)  Local Control Panel of Moltit Media Filter System (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L	LDB-B LDB-C LDB-D ADMINZ-LTDB 01 ADMINZ-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-950-P102 LCP-MMF-LCP-001 LCP-950-P101 LCP-950-P101 I LCP-950-P101	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of RO Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)	UCH-II ADMIN BUILDING  UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 C 228 C	LDB-B LDB-C LDB-D ADMINZ-LTDB 01 ADMINZ-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-950-P103-B LCP-950-P102 LCP-MMF-LCP-001 LCP-950-P101/102 OPR-PDB-4 DCP-970-C101	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Área)  LDB-D (Dehydration 2 Área)  Distribution Board 01 (Admin Building Área)  Distribution Board 01 (Admin Building Área)  Distribution Board 01 (Admin Building Área)  Local Control Panel of Fire Water Pump A (Utility Área)  Local Control Panel of Fire Water Pump B (Utility Área)  Local Control Panel of Jockey Pump B (Utility Área)  Local Control Panel of Jockey Pump B (Utility Área)  Local Control Panel of Fire Water Pump B (Utility Área)  Local Control Panel of Fire Water Pump B (Utility Área)  Local Control Panel of Oly Water Package (CPI Área)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Área)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 L 227 L 229 L	LDB-B LDB-C LDB-D LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-920-P103 A LCP-950-P102 LCP-MMF-LCP-001 LCP-950-P101 LCP-950-P101 LCP-970-C101-A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Área)  LDB-D (Dehydration 2 Área)  Distribution Board 01 (Admin Building Área)  Distribution Board 01 (Admin Building Área)  Distribution Board 01 (Admin Building Área)  Local Control Panel of Fire Water Pump A (Utility Área)  Local Control Panel of Fire Water Pump B (Utility Área)  Local Control Panel of Jockey Pump B (Utility Área)  Local Control Panel of Jockey Pump B (Utility Área)  Local Control Panel of No Plant (Utility Área)  Local Control Panel of Multi Media Filter System (Utility Área)  Local Control Panel of Oily Water Package (CPI Área)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Área)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 C 229 C	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-920-P103-B LCP-950-P102 LCP-950-P102 LCP-MMF-LCP-001 LCP-950-P101/102 OPR-PDB-4 DCP-970-C101-A LCP-970-C101-B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Rockey Pump B (Utility Area)  Local Control Panel of Rockey Pump B (Utility Area)  Local Control Panel of No Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Area)  Local Control Panel of Instrument Air Compressors A (Compressor Area)  Local Control Panel of Instrument Air Compressors B (Compressor Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA  Operator Change Room	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 Q 229 D 230 L 231 L	LDB-B LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103-B LCP-950-P102 LCP-950-P102 LCP-950-P102 LCP-950-P107 LCP-970-C101-A LCP-970-C101-A LCP-970-C101-B DCP-980-C101	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Area)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump A (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of For Plant (Utility Area)  Local Control Panel of RO Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressors A (Compressor Area)  Local Control Panel of Insrument Air Compressors B (Compressor Area)  Local Control Panel of Insrument Air Compressors B (Compressor Area)  Distribution Control Panel of Nitrogen Compressors (Compressor Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 C 229 C 220 C 221 L 222 L 223 L 224 L 225 L 226 L 227 L 227 L 228 C 229 C 230 C 23	LDB-B LDB-C LDB-D ADMINZ-LTDB 01 ADMINZ-LTDB 02 LCP-920-P101 A LCP-920-P101 B LCP-920-P103 A LCP-920-P103-B LCP-950-P102 LCP-MMF-LCP-001 LCP-950-P101/102 OPR-PDB-4 DCP-970-C101-A LCP-970-C101-B DCP-970-C101-B DCP-980-C101	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Panel of Jockey Pump B (Utility Area)  Local Control Panel of RO Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Insrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressor A (Compressor Area)  Local Control Panel of Insrument Air Compressor S (Compressor Area)  Distribution Control Panel of Nitrogen Compressors (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA  Operator Change Room	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 C 229 D 230 L 231 L 231 L 232 L 233 L 233 L 233 L 233 L 233 L 233 L	LDB-B LDB-C LDB-D LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-950-P102 LCP-950-P102 LCP-9MMF-LCP-001 LCP-950-P101/102 OPR-PDB-4 DCP-970-C101-A LCP-970-C101-B DCP-980-C101 LCP-980-C101 LCP-980-C101 A LCP-980-C101 B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of AD Plant (Utility Area)  Local Control Panel of Ro Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressor Se (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA  Operator Change Room	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 L 230 L 231 L 232 L 233 L 233 L 233 L 233 L	LDB-B LDB-C LDB-D LDB-C LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-920-P103 A LCP-950-P102 LCP-950-P102 LCP-950-P101/102 OPR-DB-4 DCP-970-C101-A LCP-970-C101-B DCP-980-C101 LCP-980-C101 A LCP-980-C101 A LCP-980-C101 A LCP-980-C101 A LCP-980-C101 A LCP-980-C101 A	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Nelant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressors B (Compressor Area)  Local Control Panel of Insrument Air Compressors A (Compressor Area)  Local Control Panel of Nitrogen Compressors A (Compressor Area)  Local Control Panel of Nitrogen Compressor B (Compressor Area)  Local Control Panel of Nitrogen Compressor B (Compressor Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA  Operator Change Room	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
215 L 216 L 217 L 218 L 219 A 220 A 221 L 222 L 223 L 224 L 225 L 226 L 227 L 228 C 229 C 230 L 231 L 232 L 233 L 234 L 235 L 237 L 238 C 239 C	LDB-B LDB-C LDB-D LDB-D ADMIN2-LTDB 01 ADMIN2-LTDB 02 LCP-920-P101 A LCP-920-P103 A LCP-920-P103 A LCP-950-P102 LCP-950-P102 LCP-9MMF-LCP-001 LCP-950-P101/102 OPR-PDB-4 DCP-970-C101-A LCP-970-C101-B DCP-980-C101 LCP-980-C101 LCP-980-C101 A LCP-980-C101 B	Inspection, Servicing, Cleaning, Testing of Contactors, Thermal Relays, Aux. Contactors,	LDB-B (Admin Building Área)  LDB-C (Gas Gathering Area)  LDB-D (Dehydration 2 Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Distribution Board 01 (Admin Building Area)  Local Control Panel of Fire Water Pump A (Utility Area)  Local Control Panel of Fire Water Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of Jockey Pump B (Utility Area)  Local Control Panel of AD Plant (Utility Area)  Local Control Panel of Ro Plant (Utility Area)  Local Control Panel of Multi Media Filter System (Utility Area)  Local Control Panel of Oily Water Package (CPI Area)  Operator Change Room Distribution Board (Operator Change Room)  Distribution Control Panel of Instrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressors (Compressor Area)  Local Control Panel of Insrument Air Compressor Se (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)  Local Control Panel of Nitrogen Compressor A (Compressor Area)	UCH-II ADMIN BUILDING  UTILITY AREA  CPI AREA  Operator Change Room	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

IGNITO	NDC					
238	IG-SGT1		AC Ignitor SGT1	I	2	
238	IG-SGT2		AC Ignitor SGT2	POWER GENERATION AREA	2	
240	IG-SGT2		AC Ignitor SGT2  AC Ignitor SGT3	FOWER GENERATION AREA	2	
241	350-H101-IG1		Incinerator Ignitor-1		1	
241	350-H101-IG1		Incinerator Ignitor-1	INCINERATOR AREA	1	
243	350-H101-IG3		Incinerator Ignitor-2	INOINERATOR AREA	1	
244	900-H101A-IG1		Hot Oil Fired Heater A Ignitor-1		1	
245	900-H101A-IG1		Hot Oil Fired Heater A Ignitor-2		1	
	900-H101A-IG3		Hot Oil Fired Heater A Ignitor-3	1	1	
	900-H101A-IG3		Hot Oil Fired Heater A Ignitor-3		1	
	900-H101B-IG1		Hot Oil Fired Heater B Ignitor-1		1	
	900-H101B-IG2	Inspection, Servicing, Cleaning and Tightening of	Hot Oil Fired Heater B Ignitor-2	1	1	
	900-H101B-IG2	all connections.	Hot Oil Fired Heater B Ignitor-3		1	
251	900-H101B-IG4		Hot Oil Fired Heater B Ignitor-4		1	
	900-H101C-IG1		Hot Oil Fired Heater C Ignitor-1	HOT OIL AREA	1	
	900-H101C-IG1		Hot Oil Fired Heater C Ignitor-2	1	1	
	900-H101C-IG2		Hot Oil Fired Heater C Ignitor-3	1	1	
	900-H101C-IG3		Hot Oil Fired Heater C Ignitor-4	1	1	
	900-H101C-IG4		Hot Oil Fired Heater D Ignitor-1	1	1	
	900-H101D-IG1		Hot Oil Fired Heater D Ignitor-2	1	1	
	900-H101D-IG2		Hot Oil Fired Heater D Ignitor-3	1	1	
	900-H101D-IG3		Hot Oil Fired Heater D Ignitor-3 Hot Oil Fired Heater D Ignitor-4	1	1	
260	900-11010-104		Flare Ignition Panel	FLARE AREA	1	
	SFORMERS		inare ignition Fallet	FLANC AREA		
		I Inspection continue and general electing of	1000 IAVA T	T		
261	TRAFO-1	Inspection, servicing and general cleaning of	4000 KVA Transformer A (6.6 KV/ 415 Vac, 50 HZ KNAN type)	-	1	
262	TRAFO-2	BTD, Power/ control connections of HT/ LT side and calibration/ testing of instruments of	4000 KVA Transformer B (6.6 KV/ 415 Vac, 50 HZ KNAN type)	TRANSFORMER AREA	1	
263	TRAFO-3	Inspection, servicing and general cleaning , Power connections tightenning of HT/ LT side of transformer.	500 KVA Transformer (11 KV/ 415 Vac, 50 HZ ONAN type)	TRANSFORMER AREA	1	
MISC. S	SERVICES					
		Maintenance, cleaning, refurbishement,	Job on Skid and Pole lights			
264		replacement (if required) of skid and ploe lights	•		50	
265		Cleaning, testing and resistivity measurement of Earth pits & watering of earth pits	Earth Resistance Measurement	Whole Plant	153	
266		Allied Services for Electric Supply At Different Locations of Plant.	Allied Services		01 Job	
AMINE	-I & II, PLANT AREA	MOTORS				
267	300-P105 A	H.T (6.6KV) MOTORS	Amina Circulation D. Mater. C. Clay 424.4.A. 4200 law	AMINIT I	1	
268	300-P105 B	Cleaning of motor and heat exchanger,	Amine Circulation P. Motor, 6.6kv, 121.4 A, 1200 kw	AMINE-I	1	
269	310-P105 A	Meggering Of Windings, Inspection, Tightening			1	
270	310-P105 B	Of Connections In JBs, And Earth connections. Replacement of Bearings Not Required	Amine Circulation P. Motor, 6.6kv, 121.4 A, 1200 kw	AMINE-II	1	
271	300-P104 A				1	
272	300-P104 B		Amine Booster P. Motor, 400V, 158A, 90 KW	AMINE-I	1	
273	310-P104 A				1	
274	310-P104 A 310-P104 B		Amine Booster P. Motor, 400V, 158A, 90 KW	AMINE-II	1	
275	300-P106 A		Amina Dan Baffuu D Matar 400V 42 FA 7 F KM	AMINE I	1	
276	300-P106 B		Amine Reg. Reflux P. Motor, 400V, 13.5A, 7.5 KW	AMINE-I	1	
277	310-P106 A				1	
278	310-P106 B		Amine Reg. Reflux P. Motor, 400V, 13.5A, 7.5 KW	AMINE-II	1	
279	300-P107 A				1	
280	300-P107 A		Amine Transfer P. Motor, 400V, 3.9A, 1.5 KW	AMINE-I	1	
281	310-P107 A	L T (400V) MOTORS	Amine Transfer P. Motor, 400V, 3.9A, 1.5 KW	AMINE-II	1	
201						

		L.1 (400V) IVIOTORS				
282	310-P107 B	Cleaning, Greasing & Replacement Of Bearings			1	
283	300-P109	(If Required), Meggering Of Windings, Inspection,	Amine Sump P. Motor, 400V, 21 A, 11KW	AMINE-I	1	
284	310-P109	Tightening Of Connections In JBs, And Earth	•	AMINE-II	1	
285	300-P110 A	connections.	Anti foam Injection P. Motor,400V, 1.72A, 0.55 KW	AMINE-I	1	
286	300-P110 B		·		1	
287	310-P110 A 310-P110 B		Anti foam Injection P. Motor,400V, 1.72A, 0.55 KW	AMINE-II	1	
288	310-P110 B 300-C103 A				1	
289 290	300-C103 A 300-C103 B				1	
290	300-C103 B			AMINE-I	1	
291	300-C103 D				1	
292	310-C103 A		Amine Cooler Fans, 400V, 70.5A, 37KW		1	
294	310-C103 B				1	
295	310-C103 C			AMINE-II	1	
296	300-C103 D				1	
	IG TOWER 1 & 2 ARE	A MOTORS				
297	300-P111 A				1	
298	300-P111 B	LT (400V) MOTORS	Cooling Water Pump Motor, 400V, 330A,185KW	AMINE-I, Cooling Tower-1	1	
299	300-C101 1A to 2H	Cleaning, Greasing & Replacement Of Bearings	Cooling Water Air Fan Motor, 400V, 23A, 11KW		16	
300	310-P111 A	(If Required), Meggering Of Windings, Inspection,	, , ,		1	
301	310-P111 B	Tightening Of Connections in JBs and Earth	Cooling Water Pump Motor, 400V, 330A,185KW	AMINE-II, Cooling Tower-2	1	
302	310-C101 1A to 2H	connections.	Cooling Water Air Fan Motor, 400V, 23A, 11KW	Amin't ii, Gooling Tower 2	16	
	RATION 1 & 2 AREA N	MOTORS	Joseph Water Air Fair Wolor, 400V, 23A, 111KW		10	
303	400-P101 A				1	
304	400-P101 B		01 10: 10: 5	DHY-1	1	
305	410-P101 A		Glycol Circulation Pump Motor, 400V, 45.9A, 25.5KW	BUW 6	1	
306	410-P101 B			DHY-2	1	
307	400-P104	. = /	Glycol Makeup Pump Motor, 400V, 3.9A, 1.5KW		1	
308	400-P105 A	LT (400V) MOTORS	Anti Foom Injection Duma Mater, 400V, 4,70A, 0 FFI/AV		1	
309	400-P105 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection,	Anti Foam Injection Pump Motor, 400V, 1.72A, 0.55KW	DHY-1	1	
310	400-P106 A	Tightening Of Connections in JBs and Earth	PH Controller Injection Pump Motor, 400V, 1.72A, 0.55KW		1	
311	400-P106 B	connections.	TEN Controller injection Fump Motor, 400V, 1.72A, 0.55KW		1	
312	410-P102	connections.	Glycol Sump Pump Motor, 400V, 10.2A, 5.5KW		1	
313	410-P105 A		Anti Foam Injection Pump Motor, 400V, 1.72A, 0.55KW		1	
314	410-P105 B		7 that 1 daily injection 1 drip injector, 400 v, 1.7.27 t, 0.007 tv	DHY-2	1	
315	410-P106 A		PH Controller Injection Pump Motor, 400V, 1.72A, 0.55KW		1	
316	410-P106 B		The control of injection is unip motor, foot, in 21, closest		1	
	SYSTEM AREA MOT	TORS				
317	900-P102 A				1	
318	900-P102 B				1	
319	900-P102 C	M.V (6.6KV) MOTORS			1	
320	900-P102 D	Cleaning of motor, Meggering Of Windings,			1	
321	900-P102 E	Inspection, Tightening Of Connections In JBs and Earth connections.	Hot Oil Circulation pump Motor, 6.6 KV, 22.3 A, 220 KW		1	
322	900-P102 F 900-P102 G	Earth connections.  Replacement of Bearings if required			1	
323 324	900-P102 G 900-P102 H	replacement of bearings if required		HOT OIL AREA	1	
324	900-P102 H 900-P102 I			HOT OIL AREA	1	
325	900-P102 I 900-P102 J				1	
326	900-P102 J 900-C520 A	LT (400V) MOTORS			1	
328	900-C520 A	LT (400V) MOTORS Cleaning, Greasing & Replacement Of Bearings			1	
329	900-C520 C	(If Required), Meggering Of Windings, Inspection,	Hot OIL F.D Fan Motor, 400 V, 53 A, 30 KW		1	
330	900-C520 D	Tightening Of Connections in JBs and Earth			1	
331	900-P101	connections.	Hot Oil Make up {ump Motor, 400 V, 14.7A, 7.5 KW		1	
		BINE) AREA MOTORS	prior On ware up fullib Motor, 400 v, 14.7A, 7.3 KW		'	
332	XM 11	JINE, ANEA MOTORS	ABLOC Fan Motor 400V, 12.3A, 5.5KW		3	
	AIVI I I		,	i i	3	
332		•				

333	XM 33				3	
334	XM 70				3	
335	XM 52		Gen: CACA Fan Motor 400V. 13.75A. 7kw		2	
336	XM 53		Con. Chart an Motor 400 v. 10.76 k, rkw		2	
337	XM 54				2	
338	XM 1	LT (400V) MOTORS	Auxiliary Lube Oil Pump Motor, 400V, 18.6A, 9.5KW		3	
339	XM 2	Cleaning, Greasing & Replacement Of Bearings	Emergency DC Lube Oil Pump Motor, 24Vdc, (32, 2.4)A, 0.46KW		3	
340	XM 3		Hydraulic Start Motor		3	
341	XM 5	Tightening Of Connections In Jbs and Earth	Liquid Fuel Pump Motor, 400V, 24.5A, 13KW	SIEMENS Gas Turbines-1,2&3	3	
	XM 6	connections.	Enclosure Vent Fan Main Motor 400V, 53A, 36KW		3	
342	XM 7	connections.	Enclosure Vent Fan Main Motor 400V, 53A, 36KW		3	
343						
344	XM-105		Liquid Fuel Treatment Skid Motor, 400V, A, KW		3	
345	XM-24		Liquid Fuel Treatment Forwarding Skid Motor, 400V, A, KW		3	
346	XM-42		Vent Filter Bleed Fan Motor, 400V, 2.2A, 1.10KW		3	
347	XM-19		Secondary Air Fan Motor, 400V, 3.0A, 1.5KW		3	
348			Seal Air Fan Motor (Main)		3	
349			Seal Air Fan Motor (Standby)		3	
	RATOR AREA MOTOR	RS .				
350	350-C101 A		Incinerator Primary Blower Motor, 400V, 233A, 132KW		1	
351	350-C101 B	LT (400V) MOTORS			1	
352	350-C102 A	Cleaning, Greasing & Replacement Of Bearings	Incinerator Secondary Blower Motor, 400V, 98.9A, 55KW		1	
353	350-C102 B	(If Required), Meggering Of Windings, Inspection,	incinerator decondary blower word, 400 v, 30.3A, 33KW	Incinerator	1	
354	350-C102 C	Tightening Of Connections In Jbs and Earth			1	
355	350-C103 A	connections.	Incinerator Pilot Blower Motor, 400V, 11.5A, 5.5KW		1	
356	350-C103 B				1	
R.O PLA	ANT, AREA MOTORS					
357	930-P102 A-P1 A	LT (400V) MOTORS	D.O. Frank Water Brown Mater 400V 40 0A 44KW		1	
358	930-P102 A-P1 B	Cleaning, Greasing & Replacement Of Bearings	R.O Feed Water Pump Motor, 400V, 19.8A <b>, 11KW</b>		1	
359	930-P-102A-P2	(If Required), Meggering Of Windings, Inspection,	R.O High Pressure Pump Motor, 400V, 32.5A, 18.5KW	R.O PLANT	1	
	930-P-102A-P3	Tightening Of Connections In Jbs, And Earth			1	
360		connections.	CIP Pump Motor, 400V, 11A, <b>5.5KW</b>		1	
UTILITIE	ES, AREA MOTORS					
361	930-P102 A		Raw Water Pump Motor, 400V, 54.4 A, 30KW			
362	930-F102 A				1	
	930-P102 A		Traw Tracer Fully Meter, 400 V, 64.471, 661117		1 1	
363			<u> </u>			
363 364	930-P102 B		Utility Water Pump Motor, 400V, 65A, 37KW		1	
	930-P102 B 930-P103 A		<u> </u>		1 1	
364	930-P102 B 930-P103 A 930-P103 B		Utility Water Pump Motor, 400V, 65A, 37KW		1 1 1	
364 365	930-P102 B 930-P103 A 930-P103 B 930-P104 A	LT (400V) MOTORS	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW		1 1 1 1	
364 365 366	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B	<u>LT (400V) MOTORS</u> Cleaning. Greasing & Replacement Of Bearings	Utility Water Pump Motor, 400V, 65A, 37KW		1 1 1 1	
364 365 366 367	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A	Cleaning, Greasing & Replacement Of Bearings	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW		1 1 1 1 1 1	
364 365 366 367 368 369	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B	Cleaning, Greasing & Replacement Of Bearings	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW	UTILITY AREA	1 1 1 1 1 1	
364 365 366 367 368 369 370	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 A 930-P101 A 800-P101 B 990-P-101 A	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection,	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW  Flare Knockout Drum Pump Motor, 400V, 10 A, 5.5KW	UTILITY AREA	1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 A 990-P-101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 B 990-P-101 B 250-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW  Flare Knockout Drum Pump Motor, 400V, 10 A, 5.5KW  Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 B 990-P-101 A 990-P-101 B 250-P101 A 250-P101 B 940-P101 A	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW  Flare Knockout Drum Pump Motor, 400V, 10 A, 5.5KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 B 990-P-101 A 990-P-101 B 250-P101 A 250-P101 B 940-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 A 990-P-101 B 250-P101 A 250-P101 B 940-P101 A 940-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW  Flare Knockout Drum Pump Motor, 400V, 10 A, 5.5KW  Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 B 250-P101 A 250-P101 B 940-P101 B 940-P101 B 950-P102 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 B 250-P101 A 250-P101 B 940-P101 B 940-P101 B 950-P102A 950-P102A	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376 377	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 B 990-P-101 B 990-P-101 B 250-P101 A 250-P101 B 940-P101 B 940-P101 B 950-P102B 950-P102B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth connections.	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW  Treated Water Disposal Pump Motor, 400V, 18.7 A, 11 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 COMPR	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 B 990-P-101 B 250-P101 A 250-P101 B 940-P101 B 950-P102B 950-P102B 950-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth connections.	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, 4KW  Flare Knockout Drum Pump Motor, 400V, 10 A, 5.5KW  Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW  Treated Water Disposal Pump Motor, 400V, 18.7 A, 11 KW  Condensate Recovery Pump Motor, 400V, 3A, 1.5 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 <b>COMPR</b>	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 A 990-P-101 B 250-P101 A 250-P101 B 940-P101 B 940-P101 B 950-P102 B 950-P102 B 950-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth connections.	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW  Treated Water Disposal Pump Motor, 400V, 18.7 A, 11 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 COMPR 379 380	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 B 250-P101 B 250-P101 B 940-P101 B 950-P101 B 950-P102 B 950-P102 B 950-P101 B 950-P101 B 950-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth connections.	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW  Treated Water Disposal Pump Motor, 400V, 18.7 A, 11 KW  Condensate Recovery Pump Motor, 400V, 3A, 1.5 KW	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 <b>COMPR</b> 379 380	930-P102 B 930-P103 A 930-P103 A 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 B 250-P101 B 940-P101 B 940-P101 B 950-P102A 950-P102A 950-P102B 950-P102B 950-P101 B ESSOR AREA MOTOI 970-C101A	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth connections.  RS  LT (400V) MOTORS Cleaning, Greasing & Replacement Of Bearings	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW  Treated Water Disposal Pump Motor, 400V, 18.7 A, 11 KW  Condensate Recovery Pump Motor, 400V, 3A, 1.5 KW  Inst. Air Comp. Main Motor, 400V, 171A, 90KW  Inst. Air Comp. Fan Motor,	UTILITY AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 COMPR 379 380	930-P102 B 930-P103 A 930-P103 B 930-P104 A 930-P104 B 800-P101 A 800-P101 B 990-P-101 B 250-P101 B 250-P101 B 940-P101 B 950-P101 B 950-P102 B 950-P102 B 950-P101 B 950-P101 B 950-P101 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection, Tightening Of Connections In Jbs, And Earth connections.	Utility Water Pump Motor, 400V, 65A, 37KW  Demin Water Pump Motor, 400V, 27A, 15KW  Diesel Storage Tank Pump Motor, 400V, 7.6A, <b>4KW</b> Flare Knockout Drum Pump Motor, 400V, 10 A, <b>5.5KW</b> Condensate Transfer Pump Motor, 400V, 10 A, 5.5KW  Slop Pump Motor, 400V, 4.95A, 2.2 KW  Treated Water Disposal Pump Motor, 400V, 18.7 A, 11 KW  Condensate Recovery Pump Motor, 400V, 3A, 1.5 KW	UTILITY AREA  Compressor Area	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

383	980-C101 A	Tightening Of Connections In Jbs, And Earth	Nitrrogen Comp. Main Motor, 400V, 137A, 75KW	Compressor Area	1	
384	980-C101 B	connections.			1	
385	980-C101 A		Nitrogen Comp. Fan Motor, 400V, 4.5 A, 2.2 KW		1	
386	980-C101 B				1	
FIRE W	ATER SYSTEM AREA	MOTORS				
387	920-P-103 A	LT (400V) MOTORS	L L D A L 400V 40A 00VAV		1	
388	920-P-103 B	Cleaning, Greasing & Replacement Of Bearings (If Required), Meggering Of Windings, Inspection,			1	
389	920-P-101 A	Tightening Of Connections In JBs, And Earth	Fire Water Pump Motor, 400V, 233A, 132KW	Fire Water System Area	1	
390	920-P-101 B	connections.			1	
	Grand Total in PKR (exclusive of PST/ICT)					