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Al Ain Distribution Company	Handover of Distribution Network	Managing Direct	~~ <b>*</b>		
	Assets (Electricity & Water)	Managing Direct	.01		
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	OP.AM/AID.09				
شرکۃ العین للتوزیع Al Ain Distribution Company					
HANDOVE	R OF DISTRIBUTION NET	WORK AS	SETS		
	(ELECTRICITY & WATE	R)			
Dremened have					
Prepared by:	Accet Information Department M				
	Asset Information Department M	lanager			
Reviewed by:					
	Asset Management Director				
	-				
Endorsed by:					
Endorsed by.	Executive Operations Director	r			
Approved by:					
Approved by:	Managing Director				
Issued by:					
	Integrated Management System Repre	sentative			
Effective Date:	22 /02 / 2015				
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Al Ain Distribution Company	Handover of Distribution Network Assets (Electricity & Water)	Managing Directo	)r
	OP.AM/AID.09		
AMENDMENTS SHE	ET		

ISSUE/ REV. #	PAGE NUMBER	SUBJECT OF THE AMENDMENT	APPROVED BY SIGNATURE	DATE

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شركة العين للتوزيع	- 01	Approved by:	
Al Ain Distribution Company	Handover of Distribution Network		
A All Discibutor company	Assets (Electricity & Water)	Managing Directo	or
	OP.AM/AID.09		
1. <u>PURPOSE</u>			

The purpose of this procedure is to formulate detailed procedure for Handing Over of assets developed by any firm other than AI Ain Distribution Company (AADC) to (AADC) for future Operation and Maintenance (O&M) by AADC.

## 2. <u>SCOPE</u>

This procedure applies to all distribution infrastructure assets established by the developers to feed all customers within the identified development and to be handed over to AADC for future O&M.

#### 3. DEFINITIONS / TERMINOLOGY

Developer	Firm responsible for the development and undertaking the infrastructure development
Development	Electricity/ Water Asset that had been developed by third party and eventually transferred to AADC, Approved by ADWEA.
ADWEA	Abu Dhabi Water and Electricity Authority
AADC	AI Ain Distribution Company
TRANSCO	Abu Dhabi Transmission & Dispatch Company
DISCOs	Distribution Companies
As Built Documents	Design Document / Material submittal/Construction Drawings approved by AADC. All Factory Acceptance Test (FAT) certificates/ Approved method statement and Site Acceptance Test (SAT) certificates O&M Manuals for equipment / System
Standards/Specifications	ADWEA / AADC Specifications and Standard practices
EO&MD	Electricity Operation and Maintenance Directorate
WO&MD	Water Operation and Maintenance Directorate

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AMD	Asset Management Directorat	۹		
PRJD	Projects Delivery Division	•		
CSD	Customer Services Directorate			
SD	Supply Department	-		
FAC	Final Acceptance Certificate			
PAC	Provisional Acceptance Certifi	cate		
PU	Package Unit			
RMU	Ring Main Unit			
DMS	Distribution Management Syst	Distribution Management System		
SLD	Single Line Diagram	Single Line Diagram		
BOQ	Bill of Quantity	Bill of Quantity		
GIS	Geographic Information Syste	Geographic Information System		
CAD	Computer-Aided Design	Computer-Aided Design		
ETAP	Electrical Transient and Analy	Electrical Transient and Analysis Program		
ASPEN	Relay Data Base Software			
СТ/VТ	Current Transformer / Voltage	Transformer		
СВ	Circuit Breaker			
RTU	Remote Terminal Unit			
SCMS	Substation Control and Mor	nitoring System		
TPD	Town Planning Department			
MDF	Main Distribution Frame (In	terface panel)		
PLC	Programmable Logic Contro	Programmable Logic Controller		
SRV	Store Return Voucher	Store Return Voucher		

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FAT	Factory Acceptance Tests	<u> </u>	
SAT	Site Acceptance Tests		
ASTS	ADWEA Standard Technical Specifications		
LVAC	Low Voltage Alternative Current		
PQ	Pre-Qualifications		

## 4. <u>REFERENCES</u>

- 4.1 Policy on Asset Handover to DISCOs for Ownership, Operation & Maintenance (Electricity & Water)- AADC-AMD-P-AH-01 dated 07/01/2013.
- 4.2 Executive Counsel Letter number 12 dated in 05/08/2014, regarding the agreements with third parties.

#### 5. <u>RESPONSIBILITIES</u>

It shall be the responsibility of the following in taking over the assets:

ltem	Responsibility	Support
Assets Verification	AMD	PRJD / EO&MD / CSD / WO&MD
Site Verification	PRJD	Committee involve representatives from AMD, EO&MD, WO&MD, CSD and PRJD

**Note:** AADC's appointed consultant will coordinate among departments within AADC and the developers.

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### **Documents/ Software Required:**

Following minimum documents shall be submitted to AADC for the process of Handing Over:

- a) Final Approved Master Plan
- b) All AADC approved as built documentation referred in 7.1 SI. No.4 and O&M manuals shall be submitted before commissioning. The as built documentations shall contain all engineering calculations, approved vendor/component list SLD, Schematic, layout and all other engineering drawings, FAT/SAT protocols and reports, setting calculations/ software models, etc. including communication equipment.
- c) Contract document signed between the Developer and Contractor based on the approved Tender Evaluation document. The document shall contain the complete BOQ with Unit Rates for Supply and Installation separately as per standard ADWEA format
- d) Documents of ADWEA/AADC Project Execution forms
- e) ADWEA/AADC Specification related to material Guarantee of 5 to 10 years e.g. meters, valves, strainer etc....
- f) Variation Orders, if any
- g) Deviations, if any and approval for the same from AADC
- h) BOQ format as per ADWEA standards
- i) Final Payment Document. Undertaking from all Contractors/Sub Contractors employed by the Developer.
- j) All details required to update the network in GIS as per ADWEA standard specifications for power and water, also communication data is required in GIS such as FOC routes and manholes, etc.
- k) Transfer of 2 years warrantee and transfer the guarantee if available of all equipment / System. Clearly stating extended warrantees, if any

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			OP.AM/AID.	.09	
l) /	Approvals	obtained from	n various auth	orities like Mun	icipality (for corridor)
	Environme	ental Agency,	Civil Defense	etc.	
m) <sup>-</sup>	Transfer o	of ownership o	of substation la	and and access	to the substation
n) /	Approved	Manufacture	r Recommende	ed Spare parts	and tools list including
	communic	ation spares.			
o) <sup>-</sup>	Training S	chedule for A	AADC Staff ind	cluding relevant	training document.
p) (	Overall pro	oject view (cc	onsisting all ne	w substations c	owned built by Developer
	/Contracto	or and the cor	nections betw	een them show	ving all AADC Incomers data
	(station na	ame, feeder N	lo. and etc) , lo	ocations of meter	ers , single line diagram of
	each statio	on with all rat	ings .		
q) (	Overall Pr	oject docume	entation list and	d submission ap	oprovals status to be provided
1	to follow u	p the project			
r) 3	Setting ca	Iculation to be	e done in ETAI	P latest softwar	e & models handed over to
	AADC afte	er approval.			
s)	Licensed I	relay Softwar	e and soft copy	y for all implem	ented settings (to be handed
	over befor	e commission	ning), commun	nication equipm	ent application software
	license.				
t)	Relay data	a & Settings s	shall be update	ed into ASPEN	software.
u)	List of mai	in equipment'	s with quantitie	es in each statio	on type showing the ratings
	and the ou	utgoing feede	r applications	with load details	s ( Ex:- cooling chillers ,
	motors, ge	enerators or c	other).		
v) ;	Single line	e diagram sho	ould be submitt	ted for each typ	e covering all main items (
	CT, VT, m	eters, Transf	ormers , Switc	hgear CB, inter	locking, Relays, cables, etc )
,	with all tec	chnical param	ieters (type, ra	ting, classetc	c) and legend with all symbols
	description	n.			

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, and a second sec	Assets (Electricity & Water)	Managing Direct	tor
	Assets (Electricity & Water)		
	OP.AM/AID.09		
Financial Require	ments:		
w) Cost Com	poponto : It is important to consider Cost o	acceleted with	aaat
	ponents : It is important to consider Cost a		
handover	, which may be varying according to each a	asset transfer. H	lowever, it
may inclu	de the followings:		
<ul> <li>Value of Service</li> </ul>	of asset transferred.		
<ul> <li>Service</li> <li>Owners</li> </ul>			
	nt method.		
•	ed date to finalize the projects.		
•	Quantity.		
	nance Budget.		
	ncy of maintenance.		
•			
x) Applied p	olicies & Procedures: to ensure sound finar	ncial statements	s and proper
,			
recording	olicies & Procedures: to ensure sound finar		
recording based on	olicies & Procedures: to ensure sound finar of transferred assets in financial system; th	nese assets will	

The above Procedures are subject to review and discuss with the company's external auditors.

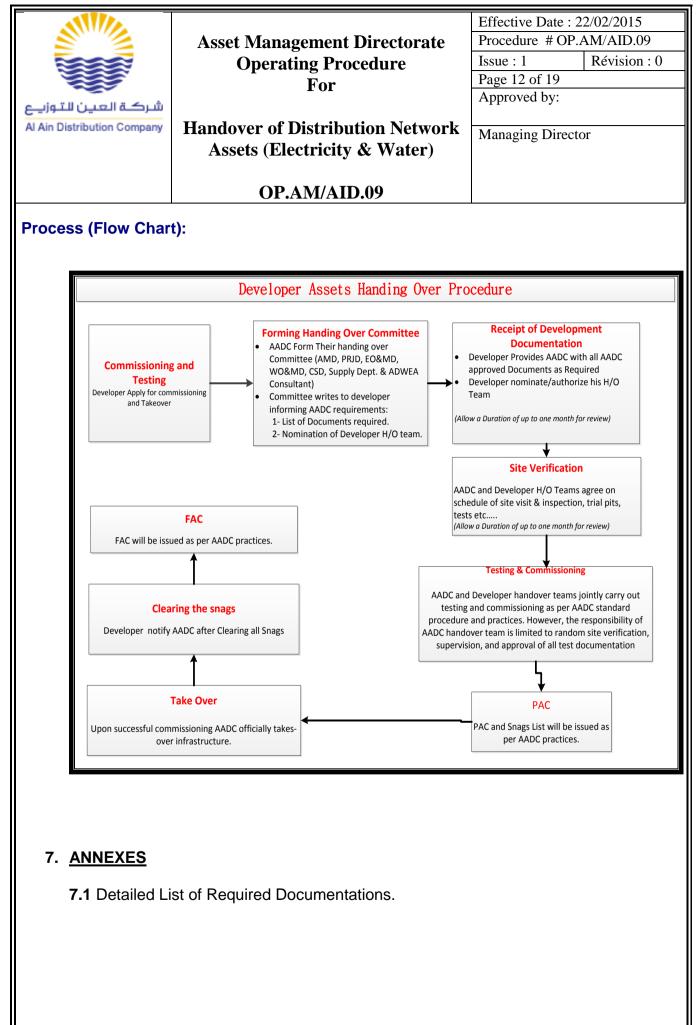
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# 6. PROCESSES

- 6.1 Developer writes to AADC applying for handover of assets after the successful commissioning
- **6.2** Developer to submit the undertaking letter to AADC for any pending work that prevent the commissioning.
- 6.3 Compliance with ADWEA Project Procedure manual.
- 6.4 Consultants and contractors must be in ADWEA vendors and qualified..
- 6.5 AADC forms its Handover Committee comprising representatives of the Directorates/ Divisions AMD, PRJD, EO&MD, WO&MD, CSD, SD and ADWEA consultant of this development.
- 6.6 AADC committee writes to developer asking:
  - The handover of all required documents of the development in soft copies as per Annexes 1 of this procedure.
  - Officially nominate his handover team comprising: representative of Developer, Developer Consultant and developer contractor.
- **6.7** Developer shall submit all required documents as required in 6.3 and officially nominate and authorize his handover team, allowing a period of up to one month for documents review by AADC.
- 6.8 AADC and Developer to agree on a schedule for final handing over of assets by AADC Handover Committee to visually inspect and verify infrastructure. A period of up to one month should be allowed for this.

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Al Ain I	Distribution Company	Handover of Distribution Network	Managing Director		
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6.9	6.9 AADC and Developer handover teams jointly verify assets as per AADC standard				
	procedure and practices.				
6.10	0 Upon successful commissioning of infrastructure, AADC will issue PAC and snags list				
	as required, as per AADC practices				
6.11	Upon successful verification of infrastructure, AADC will issue transfer certificate as				
	per AADC practices				
6.12	2 Developer to work on snags list and completing the warranty period as required and				
	notifies AADC after clearing all snags.				
6.13	13 Upon Successful clearing of snags list, AADC will issue FAC as per AADC practices				

**6.14** Compliance with AADC cost model structure.



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# 7.1 Detailed List of Required Documentations

SN.	Description
1	General Documents
1.1	Final Development Brief & Final Master Plan.
1.2	Load/Demand Calculation for Electricity/Water with a projection of annual utilization over the first 10 years after commissioning of the development.
1.3	Hydraulic Analysis.
1.4	Load Flow and Short Circuit Analysis (if applicable).
1.5	Sizing calculations for transformers, cables, pumps, control valves etc.
1.6	Approved System Studies (Load Flow and Short Circuit).
1.7	Copy of signed SLD and any other government orders/approvals/licenses or ADWEA/TRANSCO approvals related to the Infrastructure Development.
1.8	Deviations from AADC Standard Specification and Procedure, if any and approval for the same from AADC.
1.9	Transfer of ownership of substation/pumping station land and clear vehicle access to the place.
1.10	List of the customers supplied by each SS, mentioning the Bulk / single Customer SS connected to it and approximate connected & Demand load of each customer.
	Agreement with the individual Plot owners pertaining to the power &
1.11	Water connectivity, including special instructions related to design
	etc., the same shall be intimated and submitted to AADC.

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2	Con	tract Documents		
2.1		ract Documents (complete set).		
2.2		ation Orders (if applicable).		
3	Site	and Test Documents		
3.1	Acce	ptance Test Procedure and Test plan.		
3.2	Mate	rial Dossiers.		
3.3	Work	shop Test Reports (Routine Tests).		
3.4	Prog	Progress Reports / Progress Photos.		
3.5	Receiving cum Damage Reports including Shipment Documents and Delivery Note.		oment Documents	
3.6	Erection Progress Report including Manufacturer Approval.		er Approval.	
3.7	Invoi	Invoices of Progressive Payments (Final)		
3.8	RTU	Acceptance Test Procedure FAT, SAT, Adaptation testing, RTU/SCMS testing, Point to Point Test. and communication link /equipment testing.		
3.9		Acceptance Test Report FAT, SAT/Site Test Reports / Type Tests Certificates.		
3.10		Any "Notice of Intent", TPD Approvals & Land Ownership Of Substations/ Pump Stations Plots.		
3.11	Meth	Method Statement (Construction Stage).		
3.12	Soil	oil Investigation & Soil Analysis Report.		
3.13	DMS Design Documents including Adaptation Design, Tele- information Plan, MDF Design, RTU Design, Signal List, RTU I/O Diagrams, SLD, Equipment layout, Cable Overview / List, DC System Design, Communication System Design.			

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3.14	Calibration Certificate of all instrumentation an equipment.	d measuring	
3.15	<ul> <li>For all substation equipment's, the following shall be submitted to AADC for review and approval:</li> <li>a. Vendor / Type Approvals, Technical Data, General Arrangement / outline / views / layouts, cross section diagrams, foundation details, painting procedures etc.</li> <li>b. Detail Protection /Switchgear Single Line Diagrams,</li> </ul>		
4	Block/Logic diagrams, Schematic / Circuit , Wiring, Terminal Diagrams, Work Method Statements, Factory and Site Test Procedures / Reports, Setting calculations, etc. As Built & Commissioning Documents		
4.1	Distribution Network Diagrams		
4.2	Single Line Diagrams		
4.3	O&M Manuals		
4.4	Operational Philosophy		
4.5	Warrantees for all equipment		
4.6	Structural & Civil Works Warrantees		
4.7	As Built Drawings Compatible to GIS System a Standards and Specifications	and ADWEA	
4.8	All Configurations and Default Settings		
4.9	License / Authorization software / Programmin	g Unit for O&M	
4.10	SCADA System Software in CD		
4.11	System Software & the Application in CD (PLC/RTU Software)		
4.12	PLC/RTU Programs		
4.13	Approved Technical Data Sheets		
4.14	Final Manufacturer Recommended Spares Parts List with Part number including handing over voucher (AADC-SRV)		
4.15	Special & Operational Tools (Special tools in S handing over voucher (AADC-SRV)	Substation)including	

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		Assets (Electricity & Water)		
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			l	
4.16	Pum	ps, Motors & Field Instruments Test Repor	ts & Log Sheets	S.
4.17	Fire	Alarms & Alarms Test Reports.		
4.18		p Station, Reservoir & Pipeline Commissio ding disinfection report.	ning Reports	
4.19	Com	munication channels routing.		
4.20	Fibe	Optic Cables Layout.		
4.21	Load Calculation for 8 DC Power Supply System.			
4.22	As Built DMS Documents including: Adaptation Design, Tele- information Plan, MDF Design, RTU Design, Signal List, RTU I/O Diagrams, SLD, Equipment Layouts, Cable Overview / List, DC System Design, Communication System Design			
4.23	Test Records including Adaptation test, RTU test, Point to Point test, FAT, and SAT.			
4.25	Documents and Philosophy of special features in the Substation (if any) as interlocking system.			on (if
4.27	Contact Details of the equipment supplier including supplier name, contact numbers in UAE/ Factory Contact Persons, including phone, mobile and mail address for future reference.			
5	Developer/Consultant/Contractor Responsibilities during Project Execution			
5.1	All FAT and SAT program to be notified to AADC and witnessed/approved by AADC (before dispatch for FAT and before commissioning for SAT).			efore
5.2	<ul> <li>h engineering documentation shall be submitted for approval. Drawing/Technical submittals should follow a hierarchy as required for manufacturing/ project programs. We recommend hierarchy as follows:-</li> <li><u>Substation:-</u></li> <li>1) Overall Single Line Diagram</li> <li>2) Equipment Layout</li> <li>3) Basic design calculations (Ex: Earthings)</li> </ul>			

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	• Equipment (switchgear, Transforme	r, LVAC, DC sys.) :-	
	<ol> <li>Vendor approvals</li> <li>Basic design calculation (CT &amp; VT ,</li> </ol>		
	<ul> <li>cables)</li> <li>3) Single Line Diagram</li> <li>4) Logic Diagram</li> <li>5) Components type approvals</li> <li>6) Circuit and terminal diagram</li> <li>7) Layout and General Arrangements (</li> <li>8) FAT procedures, Protocols and Rep</li> <li>0) Protection Softings datails, calculation</li> </ul>	orts.	
	<ul> <li>9) Protection Settings details, calculations and approvals.</li> <li>10)SAT procedures, Protocols, Reports and O&amp;M manuals</li> <li>11)Commissioning procedures and Protocols.</li> </ul>		
5.3 eq	Product ordering code (not just the make and type) for secondary equipment shall be indicated clearly during detail engineering approvals.		
54 Th	The compliance of type test requirements by vendors in line with ASTS shall be completely met.		
22	The compliance of type test requirements by vendors in line with ASTS shall be completely met.		
5.6 co	The process of validity of type test reports shall be clearly defined considering that the international standards are subject to continual update.		
5.7 co	The process of validity of type test reports shall be clearly defined considering that the international standards are subject to continual update.		
58	MTBF (Mean Time between Failures) and MTTR (Mean Time to Repair) for each type of device shall be provided and guaranteed.		
5.9 pro to	Locally available professional authorized and trained support team to attend to the warranty issues shall be confirmed. Detailed procedures and contacts shall be proposed. If AADC do not accept local team based on current performance, available of OEM representatives from factory locally shall be ensured.		
5.10 sp	All critical components such as current and voltage transformers, special application relays, broken conductor etc., shall be prequalified.		

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	If the failure rates are abnormal and any defect	t arises after 2	vears	
	of operation, such product shall be suspended			
5.11	installation with a written notice until sati		-	
	provided.	, <u>,</u>	-	
	It should be a primary requirement from the	Project Deve	lopers	
	to obligate/instruct their contractor & Consult	-	-	
	standard requirement, to avoid losing AADC			
5.12	responsibilities (which exclude ADWEA stand	0 0		
0.12	sending the SS equipment material to the	•		
	approval/FU, waiving FAT, delaying submittin			
	study for AADC approval before commissioning		9	
			any of	
5.13		ntractor shall ensure with the manufacturer to notify that if any of		
5.15		rdware/software/firmware components changed from those		
	approved during PQ and if the base design features are changed.			
	Contractor shall ensue with the manufacturer to notify to ADWEA			
5.14	and end users for any of the product would be moved to obsolete			
5.14	stage or if supply of spares would be ceased, in advance by 2 years at least, to enable us to take necessary action for any issues related			
	this product in addition to arrange required spar	•		
	Contractor/Consultant should comply with latest ADWEA			
			liance	
5.15	specification (ASTS), check supplier documents/replies compliance			
5.15	with ADWEA requirements and if found any deviation, same should highlighted clearly in the beginning of the project and provide a			
	highlighted clearly in the beginning of the project and provide a compliance statements for all other items .			
	Contractor should check all Supplier replies bef	ore sending the	em to	
5.16	AADC for commenting.			
	Contractor should advise supplier to fill all ADV	/EA Technical I	Data	
5.17	Sheet taking in account other required items su			
	Protection, DC System, LVAC, Metering device	•	data.	
	A declaration statement shall be obtained from	-		
5.18		ntractor and vendor for stating no deviations from ASTS and/or		
0.10	iternational standard requirements.			
	Consultant appointed by developer as technica	Irenresentativo	for	
	these projects, should be approved by AADC a	•		
5.19			iu	
	see his technical and managerial capabilities as engineer/supervisor in order to contribute in the			
		; nyni way lu ey		

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	the r	roject in an efficient manner .		
	Cone	sultant assigned by the representative proje	act owner/developer	
5 00			-	
5.20		Id be fully aware of AADC procedures/spe		
		wed for document approvals/ASTS.		
	Consultant/Contractor to ensure that engineering documentations			
5.21	and site works are completed and fully in line with ADWEA			
0.2.	specification. All equipment and components should be in line with			
	ADWEA/AADC technical specification and functional requirements.			
	Assigned/agreed persons from Consultant side shall follow the			
5.22	AADC comments in addition to review/modify/update and confirm			
5.22	passing the comments to the contractor and should effectively			
	follow up the subject until it get completed/closed/finalized.			
	Consultant/Contractor Should review the submittals and discuss		ittals and discuss	
	their comments with AADC before sending the final technical			
	documents for AADC review and approval. Consultant/Contractor			
5.23	should carefully check and confirm if there are any deviations found			
		in the submitted document then submit Complete List of Deviations		
	from ADWEA specifications and Data Sheet.			
	Only the bidders, vendors and subcontractors with qualified status			
5.24		OWEA commercial register shall be particip	•	
	process. Subcontractor if any shall be clearly identified during the			
	original proposal.			
	All proposals for spares, tools, training (Factory/Site), etc, shall be			
E 0E				
5.25	submitted and approved by AADC. Same shall be finalized before commissioning.			
COIL		nissioning.		