

### CHECKLIST OF ACCEPTANCE CRITERIA

SERVICES: AIR CONDITIONING & MECHANICAL VENTILATION SYSTEM

PROJECT NAME :

FILE NO.:

# ACCEPTANCE CRITERIA FOR INSTALLATION OF WATER COOLED PACKAGE SYSTEM



# BORANG - AC - WCP - SKM 2 - 2009

# **CHECKLIST OF ACCEPTANCE CRITERIA**

SERVICES: AIR CONDITIONING & MECHANICAL VENTILATION SYSTEM

PROJECT NAME :

FILE NO.:

	ACCEPTANCE CRITERIA	A FOR INSTALLATION OF WATER COC			VCPU)
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
	DRAWINGS & DOCUMENTS				
a.	Working drawings	Provided and approved before the			
a.	Working drawings	system installation is carried out.			
		Coordination with other disciplines at			
		site (Coordinated drawings).			
b.	Contract document/Copy of :	3-7			
	Technical Specification	D			
	Design Requirement	Provided for references.			
	Tech. Data of Equip. Offered				
	TECHNICAL CHECKLIST				
.1	WCPU				
a.	WCPU no.				
b.	Type of WCPU	Single/Double Skin			
C.	Type of compressor	Hermetic compressor.			
d.	Physical WCPU appearance :	·			
	Housing	Good condition and no dented/crack.			
	Cooling coils & fins	Good condition and no dented/crack.			
e.	WCPU Installation	WCPU install on proper plinth c/w			
		isolator.			
f.	Condenser water pipeworks to	Installed c/w bracket support to WCPU			
	WCPU	in good condition.			
g.	Valves, fittings for pipeworks at	Valves fittings such as flowswitch,			
	WCPU	pressure gauge, balancing valve,			
		flexible joints etc. at the WCPU pipeline			
L .	Condensate dusin nine at MCDLL	in good condition.			
h.	Condensate drain pipe at WCPO	Installed c/w trap, insulation in good condition and comply to specification.			
i.	Ductworks at WCPU	Installed c/w insulation in good condition			
١.	Ductworks at Wor O	and comply to specification.			
j.	Duct flexible connections	Provided at location where ductwork			
-		joins the AHU.			
		Consist of 2 layers of 567g vapour proof			
		canvas or nylon fabric.			
k.	Filter section				
	Primary filters	Provided and can be remove/replace			
		easily.			
		50mm thickness.			
		Additional set of filter supplied for			
	Secondary filters (Optional)	number of filter supplied.  Provided and can be remove/replace			
	Secondary filters (Optional)	easily.			
		Air tight seal between filter holding			
		frame & housing (approved propietry			
		factory made).			
		Additional set of filter supplied for			
		number of filter supplied.			
l.	Temperature controller for	Provided and in good condition.			
m.	Starter panel for WCPU	Provided and in good condition.			
n.	Cable trunking	Surface & concealed - G.I. conduits			
		Cable trays - perforated hot dipped galvanised.			
		Cable trunking - hot dipped galvanised			
		Size - up to 100mm x 100mm (18 swg)			
		Size - up to 150mm x 150mm (16 swg)			
		Size - larger (not less than 14 swg)			

- $\sqrt{\ }$  Comply to specification/drawings (Acceptable)
- X Not Comply to specification/drawings (Not Acceptable)



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SERVICES: AIR CONDITIONING & MECHANICAL VENTILATION SYSTEM

PROJECT NAME :

FILE NO.:

		FILE NO.:			
	ACCEPTA	NCE CRITERIA FOR INSTALLATION OF (	COOLING	TOWER	
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
1	DRAWINGS & DOCUMENTS				
a.	Working drawings	Provided and approved before the system installation is carried out.			
		Coordination with other disciplines at site (Coordinated drawings).			
b.	Contract document/Copy of :  Technical Specification  Design Requirement  Tech. Data of Equip. Offered	Provided for references.			
2	TECHNICAL CHECKLIST				
2.1	COOLING TOWER (CT)				
a.	CT no.				
b.	CT type	Induced Draft Cross Flow type/ Induced Draft Counterflow Type.			
C.	Physical CT appearance	Casing, louvers, basins, infill etc. in good condition, no dented/crack.			
d.	CT installation	CT install on proper plinth c/w isolator.			
		No water leakages at water basin joints, pipes etc.			
e.	CT fan	Multi bladed with fixed or adjustable pitch.			
		Fan blades - heavy duty cast aluminium and housed within a fan cylinder design for streamline air entry.			
f.	Valves fittings for pipeworks at CT	Valves, fittings such as 3 way motorised valve, gate valve, flexible joints etc. at the CT in good condition.			
g.	Water treatment plant for CT	Complete package incorporating proportional metering equipment, feed tanks, mixing tanks and other accessories.			
		Installed and commissioned strictly in accordance to the manufacturer's instruction.			
h.	Service ladder for CT	Stainless steel type.			
		CT height > than 1.5m.			
i.	Service platform	Provided if > one CT installed.			
		Interconnected in adjacent to the CT arrangement.			
j.	Cable trunking	Surface & concealed - G.I. conduits			
		Cable trays - perforated hot dipped galvanised.			
		Cable trunking - hot dipped galvanised			
		Size - up to 100mm x 100mm (18 swg)			
		Size - up to 150mm x 150mm (16 swg)			
		Size - larger (not less than 14 swg)			

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SERVICES: AIR CONDITIONING & MECHANICAL VENTILATION SYSTEM

PROJECT NAME:

FILE NO.:

	ACCEPTANCE CRIT	ERIA FOR INSTALLATION OF CONDE		TER PUMP (CWI	P)
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
1	DRAWINGS & DOCUMENTS				
a.	Working drawings	Provided and approved before the system installation is carried out.			
		Coordination with other disciplines at site (Coordinated drawings).			
b.	Contract document/Copy of :  Technical Specification  Design Requirement  Tech. Data of Equip. Offered	Provided for references.			
2	TECHNICAL CHECKLIST				
2.1	CWP				
a.	CWP no.				
b.	CWP Installation	CWP & driver installed on on a fabricated steel base plate.			
		CWP & driver allignment in good operating condition.			
C.	Chilled water pipeworks to CWP	Installed c/w steel bracket support to CWP in good condition.			
d.	Valves, fittings for pipeworks at CWP	Valves, fittings such as flexible connector, strainer, isolating valve, check valve, pressure gauge, thermometer etc. at the CWP pipeline in good operating condition.			
e.	Cable trunking	Surface & concealed - G.I. conduits  Cable trays - perforated hot dipped galvanised.			
		Cable trunking - hot dipped galvanised Size - up to 100mm x 100mm (18 swg) Size - up to 150mm x 150mm (16 swg) Size - larger (not less than 14 swg)			

 $<sup>\</sup>sqrt{\ }$  - Comply to specification/drawings (Acceptable)

X - Not Comply to specification/drawings (Not Acceptable)



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NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
1	DRAWINGS & DOCUMENTS				
a.	Working drawings	Provided and approved before the system installation is carried out.			
		Coordination with other disciplines at site (Coordinated drawings).			
b.	Contract document/Copy of :  Technical Specification  Design Requirement	Provided for references.			
	Tech. Data of Equip. Offered				
2	TECHNICAL CHECKLIST				
2.1	Make Up Water Tank				
a.	Tank material	Hot-dip galvanized pressed steel treated with anti- rust coating.			
b.	Tank Installation	Water tank mounted complete with steel skid base (I-Beams) on concrete plinths.			
		Tank installed complete with level indicators of the float type, external and internal access ladders of hot-dip galvanized steel, vent pipe complete with mosquito net, scour pipe complete with drain valve.			
		Level of water tank higher than Cooling Tower.			
		No water leakages at any water tank joints, pipes etc.			

Provided c/w gate valve and high

pressure float valve.

# NOTES:

 $\sqrt{\ }$  - Comply to specification/drawings (Acceptable)

Incoming water supply

X Not Comply to specification/drawings (Not Acceptable)



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PROJECT NAME :

FILE NO.:

	Aı	CCEPTANCE CRITERIA FOR INSTALLA	TION OF P	IPEWORKS	
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
1	DRAWINGS & DOCUMENTS				
a.	Working drawings	Provided and approved before the system installation is carried out.			
		Coordination with other disciplines at site (Coordinated drawings).			
b.	Contract document/Copy of :				
	Technical Specification	Durit la 16 a autoria de la constante de la co			
	Design Requirement     Tech. Data of Equip. Offered	Provided for references.			
2	TECHNICAL CHECKLIST				
2.1	PIPEWORKS				
Α.	Chilled/Condenser Water Pipes				
a.	Pipe material	Galvanised iron heavy grade Class C pipes to BS EN 10255:2004.			
b.	Pipe installation & welding works	Carried out by competent person.			
		Competent welder certificate provided.			
C.	Straight vertical run pipe of more	Have dirt pockets formed from equal tee			
	than 30m length	and plugs at low point of risers.			
d.	Pipeworks in all plantrooms	Installed with flanges and/or union dependant in pipe size at intervals not exceeding 6m.			To facilitate repair or dismantling.
e.	After pipelines installed	All opening capped or plugged, and left in place until removal is necessary for completion of installation.			To prevent entrance of materials that would obstruct the pipe.
		Piping flushed or blown clean and strainers or line pockets cleared from foreign materials before putting pipelines			
		into service. Piping throughly cleaned and free from scale by wire brushing.			
f.	Pipe clearance	Approximately 50mm left between outlet of pipe or insulation and the nearest wall, ceiling or equipment surface.			
g.	Pipe insulation				
	i. Chilled water pipes	Factory fabricated pre-insulated pipes. Field insulation only allowed for valves, flanges and other pipeline fittings and this shall carried out in accordance to the manufacturer's instruction.			
		Personnel conducting field insulation must be authorized by the manufacturer.			
		Letter of Authorization from manufacturer with personnel names must clearly spelled out before any of fiekld insulation work is to be carried out.			
		Combined insulation of two or more pipes shall not be approved.			
		Pre-insulated pipes must have ends suitably prepared to accept welded joints.			
		Samples of insulating material and workmanship submitted to the S.O. for approval before proceeding with the installation work.			



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		CCEPTANCE CRITERIA FOR INSTALLA			
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
h.	Pipe jacket material	Above ground - the outer casing (jacketing) shall be a spiral formed lock seamed galvanized iron type of SWG 26 gauges (0.5 mm).			
		The surface painted with an approved rust inhibitive primer and two (2) high gloss-finishing coats to approved colors and to the approval of the S.O.			
		Buried/underground - Jacket material for chilled water pipes shall be high density polyethylene (HDPE) tube conforming to approved standard.			
i.	Underground pipe characteristics	Galvanized iron to BS EN 10255:2004 Class 'C', factory wrapped externally with bituminous comply to BS 534:1990.			
		Complete with pipes pierce through floors, ceilings or walls.			
		Laid at least 900 mm below the surface and adequate provision for protection against vehicle movements and corrosion shall be taken.			
		Insulated pipe laid on a sand bed completely free of stones, back-filled with sand around and over the pipe to a minimum depth of 80 mm.			
		Next layer of backfill shall then be 300 mm deep of material free of stones. The trench shall then be filled with available material			
В.	Condensate Drain Pipes				
a.	Condensate drain pipes	PVC Class C for all sizes.  Insulated with 25 mm thick Armaflex or flexible expanded rubber compound.			
C.	Fill Pipes	nexible expanded rubber compound.			
	Fill pipes	Same material with the pipe it connected.			Size of pipe shall be approved.
	Refrigerant Pipes				
a.	Refrigerant pipes material	Hard drawn seamless copper refrigerant pipes with copper fittings and silver soldered joints.			
		Properly supported and anchored to the building structure using steel hangers, anchors, brackets and supports.			
		For refrigerant piping above 80mm O.D, it may be constructed from extra heavy quality black iron steam pipes with welded joints, in lieu of hard drawn copper refrigerant pipes.			
b.	Refrigerant pipes insulation	Whole of the liquid and suction refrigerant lines including fittings, valves and strainer bodies, flanges, etc. insulated with 50 mm thick Armaflex expanded rubber compound or approved equivalent.			



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NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
2.2	PIPE FLANGES				
a.	Flanges	Provided at each piping connection of equipment, valves or strainers.			
		Weld neck type.			
		Mating faces for each connection must be compatible.			
		Bolt holes in perfect alignment.			
2.3	PIPE SLEEVES				
a.	Pipe sleeves	One nominal diameter larger than the service pipe, except for sizes 100mm and above.			
		Fitted for pipes passing through floors, walls or partitions.			
		Galvanised pipe off-cuts for galvanised or black iron pipe.			
		Brass or copper for copper pipe.			
		Fitted in floors generally end 12mm above finished floor level for general areas.			
		Fitted in floors generally end 50mm above finished floor level for plant rooms and wet floor areas, tightly caulked with suitable diameter asbestos rope.			
		Pipe pass through fire break walls/partitions, clearance between pipes or insulation and sleeves tightly pegged with suitable diameter asbestos rope.			To form sound and fire barrier.
2.4	EXPANSION JOINTS AND ANCHORS				
a.	Expansion joints	Provided in any straight arm of chilled and condenser water piping over 60m length.			
h	Ding anguing and anabaring	Guided bellow type. Refer specification.			To control movement of pipes
b.	Pipe spacing and anchoring	Refer specification.			due to thermal and pressure gauges.
2.5	PIPE FITTINGS				
a.	Pipe fittings	Cast iron or cast/forged steel.			
		Standard pieces used throughout the whole installation.			
b.	Screwed joints sealing compound	Litharge or glycerin.			
C.	Pipe jointings	Joints up to and including 65 mm (2½") diameter on black steel piping made by means of screwed or welded connections.			
		Joints up to and including 65 mm (2½") diameter on galvanized steel piping made by means of screwed connections.			
2.6	PIPE HANGERS & SUPPORTS				
a.	Hangers & support intervals :	Rigid construction and properly isolated.			To prevent noise & vibration.
b.	Hangers & support intervals : i. Up to and including 50 mm	0.0 m and 41.1 m 1.1			
	(2" diameter) bore	• 3.0 m apart (Horizontal spacing)			
		• 3.5 m apart (Vertical spacing)			



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NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
	i. 65mm bore up to and p to and including 50 mm (2" diameter) bore	• 4.0 m apart (Horizontal spacing)			
		4.0 m apart (Verticle spacing) Installed at not more than 10 diameters from each change in direction of pipework (max.1.2m)			
b.	Hangers for copper pipelines	Not more than half of intervals of steel pipe.			
C.	Fixing pipe hangers or bracket to building structure	Approved metal expansion plugs/raw plugs.			
d.	Insulated chilled water, refrigerant lines	Protected by metal bearing plate curved to match the insulation.  Where supports are fastened around insulation, heavy density insulation or approved type saddles shall be placed between pipe work and supports and			
		moulded into adjacent insulation in an approved manner.			
e.	150mm diameter pipe or below	Hung on hangers from the ceiling slab above.			
f.	Cradles for pipes 150mm diameter or larger and clamps for	Support pipe independent from any lagging.			
g.	Horizontal runs of pipe hangers	Allow for expansion of pipelines.  Provision made for adjusting gradients and alignments.			
		Split ring & adjustable type or other approved design hung on around steel rods.			
h.	Vertical runs of pipe hangers	Supported by clamps or collars supported from angles or channels in turn resting on spring supports fixed to floor slab.			
		Support provided at each alternate floor slab.			

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PROJECT NAME :

	CAWANGAN	PROJECT NAME :			
	KEJURUTERAAN MEKANIKAL	FILE NO.:			
	ACCEPT	ANCE CRITERIA FOR INSTALLATION (	OF DUCT	WORKS	
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS
	DRAWINGS & DOCUMENTS				
a.	Working drawings	Provided and approved before the system installation is carried out.			
		Coordination with other disciplines at site (Coordinated drawings).			
b.	Contract document/Copy of :  Technical Specification  Design Requirement  Tech. Data of Equip. Offered	Provided for references.			
	TECHNICAL CHECKLIST				
A.	DUCTWORK (RIGID)				
a.	Ductwork (Rigid duct)	Galvanised steel sheets  No patched or make up pieced ductwork is allowed.			
	Gauge of sheet metal	Refer Technical Specification.			
	Flexible connections for rigid duct	Provided where the ductwork joins the air handling unit or fan housing.			
		Consist of two layers of 567g (20 oz) vapour proof canvas or nylon fabric			
b.	External insulation of ducts i. Fibreglass Insulation	Generally, supply and return air ductwork insulated externally with 50 mm fibreglass.			
		Ductwork in ceiling space immediately below the roof and in the vertical duct shaft insulated with 50 mm thick fibreglass insulation.			
	ii. Polyurethane (P.U) Insulation	All ducts exposed to unconditioned space and in the plantroom shall be insulated with 50 mm thick fire-retardant type P.U.			
	iii. Polyethelyne (P.E) Insulation	Generally, supply and return air ducts insulated with 7.0 mm thick PE foam.  Ductworks below the roof or in any vertical shaft have 10.0mm thick PE foam. Ductworks within the plant room and conditioned air ducts exposed to weather insulated with PE foam reinforced with galvanised wire mesh and finished with hybrid plaster.			
C.	Internal insulation of ducts				
	i. Fibreglass Insulation	Main supply air duct immediately after the centrifugal fan shall be internally insulated with 50 mm thick fibreglass, faced over with 1 mm thick perforated galvanised steel sheet.			
	ii. Polyethelyne (P.E) Insulation	Main supply air duct immediately after the centrifugal fan shall be internally insulated with 12 mm thick PE.			
	iii. Polyurethane (P.U) Insulation	Main supply air duct immediately after the centrifugal fan shall be internally insulated with 25 mm thick PU.			



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	ACCEF	TANCE CRITERIA FOR INSTALLATION (									
NO.	ITEMS	CRITERIA	(√) / (X)	DATE/INITIAL	REMARKS						
В.	FLEXIBLE DUCTS										
a.	Flexible ducts	Allowed for connection with branch duct to diffuser/grille.									
		Maximum length shall be not more than 2.0 meters from branch duct.  Constructed of double thickness									
		aluminium foil fitted and glued around a core of helically wound zinc-coated high carbon spring steel wire.									
		Alternatively, manufactured from roll strip aluminium constructed with lock seam to form a continuous flexible spiral duct.									
b.	Flexible ductwork insulation	Insulation shall be of 50mm thick fibreglass.									
		Density = 32 kg/m3.									
		Faced outside with approved vapour barrier and fitted around the flexible duct.									
		All flexible ductwork to diffusers shall be insulated.									
C.	Flexible ductwork connection	Each spigot on rigid ducts for connection to flexible ducts leading to single air outlets shall be standard circular or equivalent oval shape with butterfly type volume control dampers fitted.									
		Flexible duct connections and connections to spigots made using factory fitted male metal end collars and quick acting clamp locks, and each joint shall be made airtight.									
		Ducts installed without restriction to airflow and supported where suspended above the ceiling by 38mm wide straps at not more than 1 meter spacing.									
C.	FIRE RATED DUCTWORK										
a.	Fire Rated Ductwork	Minimum of 2 hours fire rating.  Encased with a framework of formed									
		metal support channels and furring channels of sizes and at spacings recommended by the supplier of the fire rated construction.									
	Fire Rated Ductwork construction	50 mm (2") layer of ceramic type spray applied over the walls of the duct or plenum.									
		An expanded metal lath shall be attached to the furring channels.									
		A second coat of ceramic type spray shall be applied to give a minimum overall thickness of 75 mm (3") spray.									
		The exposed sides of the duct or plenum shall then be sheathed with 0.8 mm galvanised steel fixed as specified for externally insulated duct sheathing.									



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NO.		CRITERIA		DATE/INITIAL	REMARKS
D.	SUPPORT & HANGERS (RIGID DUCT)				
a.	Supports and Hangers (Rigid duct)	Rigid ductwork shall be supported at centers not greater than 2 meters apart and anchored to the building structure.			
		Duct supports consist of 38 mm (1 1/2") mild steel angle bearers with 9.5 mm (3/8") diameter mild steel rods or 25 mm x 3 mm (1" x 1/8") mild steel strips as hangers.			
		Direct fastening of duct to support with screws is not allowed.			
		Duct hangers fixed to the concrete with anchor bolt. Wooden and plastic plugs are not allowed.			
e.	Elbows and Turning Vanes	All elbows have a minimum inside radius equal to the width of the duct where possible.			
		Where space does not permit such radius, sharper or right angle bends may be used together with double thickness aerofoil shape turning vanes.			
		Turning vanes must be securely fitted to the elbows.			

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- √ Comply to specification/drawings (Acceptable)
- X Not Comply to specification/drawings (Not Acceptable)

REMARKS/COMMENTS:	
Inspected by :	Verified by :
Name :	Name :
Designation :	Designation :
Date:	Date: