

#### **COMPLETION CERTIFICATE**

DATE: 28-06-2021

To,

Project Name: The Comilla Properties

COMPLETION CERTIFICATE OF DIESEL GENERATING SET PLANT ID:

20E13576A/2

Dear Sir,

We have also explained your operator how to conduct daily, weekly, monthly as well as all other inspections/services as called for in the **ALLAM**'s manual for smooth and trouble free operation of this generator. We shall cover **warranty** for the next 12 (Twelve) months from the date of its delivery, as per **ALLAM**'s terms and conditions of sales.

If you disagree with us and have any other query, please inform us as soon as possible. If we do not hear from you within next 7 (seven) days, contrary to what we have stated above, we shall consider that the plant has been received by you in a satisfactory condition.

Yours faithfully,

Cross World Power Ltd.

For and on behalf of

received the Plant in **Good order & condition.** 

The Countly Properties



DATE: 28-06-2021

To,

Project Name: The Comilla Properties

Dear Sir,

We would like to express our heartfelt gratitude for providing us the opportunity to serve you with our generator. The **KVA Tempest** brand diesel generator has been commissioned and is presently running properly.

The product that Cross World supplies are of highest quality and would definitely outlive any generator that you have used in the past provided the generators are maintained properly. And to achieve that there is no alternative to routine servicing of the generators.

It is essential that the new generator must undergo routine servicing for the **first time after running for 120 hours, followed by routine servicing after every 200 hours of running.** During each routine servicing basically lube oil filter, fuel filter, coolant and lube oil needs to be changed. Air filter needs to be changed after every 400 hours of running. This is the standard rule, but if the generator is in dusty environment then the air filter may require changing at every 200 or less hours of running.

Saline water in the radiator would eventually damage the engine block, resulting in seizure of the engine. We suggest you to avoid using normal tap water in the radiator as well. Our recommendation is to use distilled water in the radiators. The radiator must also be serviced once every 400 hours of running if not earlier. Basically, if the above rules are followed strictly, your generators will have a service life of over 10 years without hassle.

All diesel generators are used as per their application (Prime/Stand By/Base load) recommended in ISO 8528.It is also recommended that the generators depending on the usage should follow the instruction as per O & M / User Manual and maintain a recommended ventilation system inside engine room.

There is another critical issue that is often overlooked by our clients. It is the air circulation within the generator room. The fresh cold air flow into the room is sucked in by the engine for combustion. To keep the ambient temperature to a minimum, a continuous in-flow and out-Flow of air is a must. Otherwise, if the ambient temperature reaches over 45°C, the engine temperature shoots up, resulting in premature shutdown.

We believe it is our prerogative to keep each of our customers aware of the critical issues regarding the products that we supply and we can only request you to instruct the persons responsible for maintenance of the gen set to inform us to perform routine servicing upon completion of the running hours mentioned above. In any case, we would have our engineers proactively contact your maintenance department time to time.

We hope the above information would be helpful for your maintenance team.

Thank you once again for extending your support.

Sincerely yours,
Cross World Group

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# **Test Run and Commissioning Sheet**

Serial Number 20E135×6A/2

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ontact No:		0173	0.00	300						
Gen set:							,		,	
Product ID Plant No.):						Details 2	DE13:	5 76A	12	
Plant No.).	М	odel		KVA	(N)	Details	PIN			
Gen Set:		-60		60 KM	H	Serial No	K3200	0454	7045E	
The state of the state of	Br	and		Model No		School 1			_	
Engine:	Penkin's					Serial No <i>B19 J433206</i>				
	Ві	and		Model No						
Alternator:	Sta	m prid	5	12-11						
Year of			,					-	ity (Amn) 5	10 Am
Manufacturing				Magnetic	Brand 8	Model		Capac	city (Amp) 2	
ATS Type	Nil	Local	Foreign	Contractor	ABB H	X80-30		bound	. /	L + Cood
Alstype	1		Canopy interr		rnal	nal Good/Not		Canopy Sound Good / Not G		
Canopy Type	Open	Local	Foreign	insulation		Good	No	t Connected		
11 0.4 -	del	DSE 7	120 MKI	Battery	Charger	Convected				
C- wheallor M/O										
Controller Mo		0-7	-							
Controller Mo										
			11							
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Jan 28.06.2021 CWG-QM/FORM-0043

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## **Electrical and Mechanical Installation Sheet**

		Serial Numb	er: 20E	135767/2
Project 1	Name The Comilla Inopenties	kVA/Model	De	5-60
	Camilla Margines	Date	100.	06-2021
Address:	Commus	Date	1 20-	00 70 7
STED 1	Check points when shipment arrive to site			Remarks
	& Alternator			OV
			,	7
1	No visual damage to engine or generator.			
2	Visual damage to engine or generator.			
3	Gen set Placement (Leveling & bolting)	1	-	oK
if there is	any visual damage, please inform concern dept.			ON
Sten 2 ·	Gen set room /environmental condition	Ok	Not ok	Remarks
1	Sufficient space around the generator for movement	OK		
2	Proper light and air inside the room	OK		
3	Dust proof, neat and clean	OK		
Cton 2 .	Cable selection & termination	Ok	Not ok	Remarks
		Ok	NOTOK	OK
2	Check the power cable rating and insulation quality  Check the control & signal cable	ok		
3	Cable laying & dressing	OK		
4	Cable marking & termination	OK		
5	Cable trench / tray (If any)	OK		
6	Power cable connections from Alternator - ACB, ACB-ATS,ATS-L			
7	LT/Load are correct (Balanced)	OK		
8	Phase Sequence	OK		OK
Step 4:	Earthing System/connection	Ok	Not ok	Remarks
1	Separate earthing for generator	OK		OV
2	Earthing result below 1 ohm	OK		7
3	Connection from earthing bar to generator/ATS (body & neutral)	OK		nk
		1 0/1		OIX
Step 5:	Exhaust/silencer System-	Ok	Not ok	Remarks
1	Mounting of Exhaust silencer	OK		OK
2	Rigid / flexible fixing of exhaust pipe	OK	And the state of t	
3	Diameter & Length of exhaust pipe *	OK		
4	Support system	OK		
5	Extra flexible if required	OK		
6	Rain cap	OK		
	Insulation & Quality	OK		
7				
8	Alignment	OK		
9	Drainage point	OK		
10	Gasket fittings and leveling	OK		612
11	Bolting, tightening & welding	OK.		UK
STEP 6	: Radiator System	Ok	Not ok	Remarks
1	Ducting Dimension			
2	Opening area of ducting	1		

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Water Drain line Coolant Spec DM Water  OK		Canvas cloth fitting			
Water Drain line Coolant Spec Mode Water  P7: Fuel System Check fuel day tank placement / capacity* Check fuel dreservoir placement / capacity* Fuel return line (MS pipe Diameter) Fuel return line (MS pipe Diameter) Fuel tank height & size/capacity (for 4000 series)  Check all ventilation System Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  Ducting for ventilation system Check the air flow/capacity of the ventilation fan Check the air flow/capacity of the ventilation fan Check the air flow/capacity of the ventilation fan Fre-filtration system for air intake  DK  TP9: Miscellaneous  Breather pipe extension Battery terminal connection and its condition. Check anajianbility of distilled water, lube oil, coolant and diesel for commissioning as required Check hanging condition of the ATS on the wall. Visual condition of the Canopy, ATS, Fuel tank etc. Lube oil drain line Check and make overall comment on environmental condition to run	4	Support system			
Water Drain line Coolant Spec DM Water  OK	5	Out flow / louver	OV		OK
7 Coolant Spec 8 DM Water  Check fuel day tank placement / capacity * 2 Check fuel reservoir placement / capacity * 3 Fuel feed line (MS pipe Diameter) 4 Fuel return line (MS pipe, Diameter) 5 Fuel tank height & size/capacity (for 4000 series)  Check all ventilation System  Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  Ducting for ventilation system  Check the air flow/capacity of the ventilation fan Check the air flow/capacity of the ventilation checking (if necessary)  Pre-filtration system for air intake  OK  Not ok  Remarks  OK  OK  OK  Not ok  Remarks  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	6	Water Drain line			
B DM Water  Check fuel day tank placement / capacity * Check fuel reservoir placement / capacity * Check fuel freservoir placement / capacity * Fuel tent film (MS pipe Diameter) Fuel tank height & size/capacity (for 4000 series)  Check all ventilation System  Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  Ducting for ventilation system  Check the air flow/capacity of the ventilation fan Louver/ ventilation fan placement / condition checking (if necessary)  Pre-filtration system for air intake  TEP 9 : Miscellaneous  Breather pipe extension Breather pipe extension Breather pipe extension Breather pipe extension Check availability of distilled water, lube oil, coolant and diesel for commissioning as required  Check hanging condition of the ATS on the wall. Visual condition of the Canopy, ATS, Fuel tank etc.  Check and make overall comment on environmental condition to run	7	Coolant Spec			OK
1 Check fuel day tank placement / capacity * 2 Check fuel day tank placement / capacity * 3 Fuel feed line (MS pipe Diameter) 4 Fuel return line (MS pipe Diameter) 5 Fuel tank height & size/capacity (for 4000 series)  Check all ventilation System Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC. Ducting for ventilation system Check the air flow/capacity of the ventilation fan Check the air flow/capacity of the ventilation checking (if necessary)  Pre-filtration system for air intake  OK Not ok Remarks  OK OK OK OK OK  OK OK  OK OK  OK OK  OK OK	8	DM Water	ON		011
Check fuel day tank placement / capacity *			Ok	Not ok	Remarks
1 Check fuel day tank placement / capacity * 2 Check fuel reservoir placement / capacity * 3 Fuel feed line (MS pipe Diameter) 4 Fuel return line (MS pipe Diameter) 5 Fuel tank height & size/capacity (for 4000 series)  Check all ventilation System  1 Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  2 Ducting for ventilation system  3 Check the air flow/capacity of the ventilation fan 4 Dre-filtration system for air intake  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	P 7:	Fuel System		HOLOK	OK
Check fuel reservoir placement / Copension   OK   Fuel feed line (MS pipe Diameter)   OK   OK   Fuel return line (MS pipe Diameter)   OK   OK   OK   Street tank height & size/capacity (for 4000 series)   OK   OK   Not ok   Remarks      Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.   OK   OK      Ducting for ventilation system   OK   OK   OK      Check the air flow/capacity of the ventilation fan   OK   OK      Louver/ ventilation fan placement / condition checking (if necessary)      4 Pre-filtration system for air intake   OK   OK   OK      TEP 9: Miscellaneous   Ok   Not ok   Remarks      Breather pipe extension   OK   OK   OK      Battery terminal connection and its condition.   OK   OK      Check availability of distilled water, lube oil, coolant and diesel for commissioning as required      Check hanging condition of the ATS on the wall.   OK   OK      Visual condition of the Canopy, ATS, Fuel tank etc.   OK   OK      Check and make overall comment on environmental condition to run	-	Check fuel day tank placement / capacity *		*	7
Fuel return line (MS pipe John Lotter)  Fuel return line (MS pipe John Lotter)  Fuel tank height & size/capacity (for 4000 series)  Ok Not ok Remarks  Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  Ducting for ventilation system  Check the air flow/capacity of the ventilation fan  Louver/ ventilation fan placement / condition checking (if necessary)  Pre-filtration system for air intake  Ok Not ok  Remarks  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	2	Check fuel reservoir placement / capacity *			
Fuel return line (MS pipe , Diameter)  Fuel tank height & size/capacity ( for 4000 series)  CEP 8: Ventilation System  Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  Ducting for ventilation system  Check the air flow/capacity of the ventilation fan  Louver/ ventilation fan placement / condition checking (if necessary)  Pre-filtration system for air intake  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	3	Fuel feed line (MS pipe Diameter)			
Fuel tank height & size/capacity (for 4000 series)  Ok Not ok Remarks  Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  Ducting for ventilation system  Check the air flow/capacity of the ventilation fan  Louver/ ventilation fan placement / condition checking (if necessary)  Pre-filtration system for air intake  Ok Not ok Remarks  TEP 9: Miscellaneous  Breather pipe extension  Breather pipe extension  Battery terminal connection and its condition.  Check availability of distilled water, lube oil, coolant and diesel for commissioning as required  Check hanging condition of the ATS on the wall.  Visual condition of the Canopy, ATS, Fuel tank etc.  Lube oil drain line  Check and make overall comment on environmental condition to run	4	Fuel return line (MS pipe ,Diameter)	1	`	OK
PEP 8: Ventilation System  1 Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.  2 Ducting for ventilation system  3 Check the air flow/capacity of the ventilation fan  4 Louver/ ventilation fan placement / condition checking (if necessary)  4 Pre-filtration system for air intake  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	5	Fuel tank height & size/capacity (for 4000 series)	OK		ON
TEP 9: Miscellaneous  1 Breather pipe extension 2 Battery terminal connection and its condition. 3 Check availability of distilled water, lube oil, coolant and diesel for commissioning as required 4 Check hanging condition of the ATS on the wall. 5 Visual condition of the Canopy, ATS, Fuel tank etc. 6 Lube oil drain line Check and make overall comment on DB/MCC.  OK  OK  OK  OK  OK  OK  OK  OK  OK  O			Ok	Not ok	Remarks
Check the air flow/capacity of the ventilation fan  Check the air flow/capacity of the ventilation fan  Check the air flow/capacity of the ventilation fan  Check availability of distilled water, lube oil, coolant and diesel for commissioning as required  Check hanging condition of the ATS on the wall.  Visual condition of the Canopy, ATS, Fuel tank etc.  Check and make overall comment on environmental condition to run		Lot and ventilation blowers are installed as per engine	OK		oK
3 Louver/ ventilation fan placement / condition checking (if necessary) 4 Pre-filtration system for air intake  OK  OK  OK  Not ok  Remarks  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	2	Ducting for ventilation system			mlt
Pre-filtration system for air intake  OK  OK  OK  Not ok  Remarks  OK  OK  Not ok  Remarks  OK  OK  OK  OK  OK  OK  OK  OK  OK  O	3	Check the air flow/capacity of the ventilation fan	OK		OK
TEP 9: Miscellaneous  Ok Not ok Remarks  Breather pipe extension  Battery terminal connection and its condition.  Check availability of distilled water, lube oil, coolant and diesel for commissioning as required  Check hanging condition of the ATS on the wall.  Visual condition of the Canopy, ATS, Fuel tank etc.  Lube oil drain line  Check and make overall comment on environmental condition to run	3	Louver/ ventilation fan placement / condition checking (if necessary)	61/		OV.
1 Breather pipe extension 2 Battery terminal connection and its condition. 3 Check availability of distilled water, lube oil, coolant and diesel for commissioning as required 4 Check hanging condition of the ATS on the wall. 5 Visual condition of the Canopy, ATS, Fuel tank etc. 6 Lube oil drain line Check and make overall comment on environmental condition to run	4	Pre-filtration system for air intake	ON		UK
1 Breather pipe extension 2 Battery terminal connection and its condition. 3 Check availability of distilled water, lube oil, coolant and diesel for commissioning as required 4 Check hanging condition of the ATS on the wall. 5 Visual condition of the Canopy, ATS, Fuel tank etc. 6 Lube oil drain line Check and make overall comment on environmental condition to run	TED	Q · Miscellaneous		Not ok	Remarks
Battery terminal connection and its condition.  Check availability of distilled water, lube oil, coolant and diesel for commissioning as required  Check hanging condition of the ATS on the wall.  Visual condition of the Canopy, ATS, Fuel tank etc.  Lube oil drain line  Check and make overall comment on environmental condition to run					OR
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commissioning as required  Check hanging condition of the ATS on the wall.  Visual condition of the Canopy, ATS, Fuel tank etc.  Lube oil drain line  Check and make overall comment on environmental condition to run		Check availability of distilled water, lube oil, coolant and dieser for	OK		
Visual condition of the Canopy, ATS, Fuel tank etc.      Visual condition of the Canopy, ATS, Fuel tank etc.      Check and make overall comment on environmental condition to run	3	commissioning as required	1		
5 Visual condition of the Carlety, May 10 Check and make overall comment on environmental condition to run	4	Check hanging condition of the ATS on the wall.	- 0.0		
6 Lube oil drain line Check and make overall comment on environmental condition to run	5	Visual condition of the Canopy, ATS, Fuel tank etc.			OX
Check and make overall comment on environmental condition to run	0		FIX		VI
		Lube oil drain line	-		1

We have checked and certify that the works mentioned above has done as per our drawing/design/requirements/recommendations.

Cross world Personnel

End user personnel

MD Rahau Islam Signed Signed Chairman Camilla Prope

Date 29-06-2021

The Comilla Properties

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#### **Related Documents**

	/				
User Manual	Ves	No	Electrical Diagram of Gen. Set	Yes	No
Maintenance/User Hand Book	Yes	No	Electrical Diagram of Foreign ATS	Yes	No

## **Warranty Dose Not Cover:**

- Defects due to users improper maintenance (Not following the maintenance instruction by Manufacturer)
- All Consumable items (Not following the user guide/manual by Manufacturer)
- Normal Wear & Tear
- Alterations or repairs of any parts without prior approval by authorized Manufacturer/Distributor.
- •Not Following written Instruction/Comments/Recommendation given by Commissioning Manager / Engineer.

For Cross World Group

Commissioning Engineer

Date: 28.06-2021

**For Customer** 

The Gen set has been commissioned successfully & handed over without any discrepancy. We understood the operational procedure.

Response Time	Fast	Slow	Customer observation about product & service				
Product Problem Identification	ОК	Not Ok	Delighted	Very Satisfactory	Satisfactory	Unsatisfactory	
Operation Procedure Explanation	Ok	Not Ok	Remarks (I	f any ):			
Service Engineer Behavior	Ok	Not Ok					
Additional Work / service/Commissioning Done	Ok	Not Ok					

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