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Test Run and Commissioning Sheet

Serial Number

Customer :

Customer Name & Address:	WooLIM PLANT, Matarbari, cox's Bazar.		
Contact No:	Mr. Mehedi	Tel:	01730718163
		Tel:	

Gen set:

Product ID (Plant No.):	21E13701E/1						
Gen Set:	Model: PL 150	KVA: 150	Details:				
Engine:	Brand: Perkins	Model No:	Serial No: PR8352GV0739216				
Alternator:	Brand: Leroy-Somer	Model No:	Serial No: 37269600065				
Year of Manufacturing							
ATS Type	Nil	Local ✓	Foreign	Magnetic Contractor	Brand & Model	Capacity (Amp)	
Canopy Type	Open	Local ✓	Foreign	**Canopy internal insulation**	Good/Not Good ✓	**Canopy Sound performance**	Good / Not Good ✓
Controller Model	7120MK II			**Battery Charger**	Connected	Not Connected ✓	

Installation: COX'S BAZAR.

Place Of Installation	14.10.2021	Date of Delivery	10/10/21
Date Of Installation	14/10/2021	Date Of Commissioning	14.10.2021
Warranty Expiration date	W/O	Free Service Period	W/O

Load Test:

Item No	KW	Hz/Speed	Voltage Phase-N			Current			Oil Pressure Bar	Temperature °C
			V1-N	V2-N	V3-N	I1	I2	I3		
1	12	51.9/1557	233	234	233	30	15	12	5.24	76°C
2										
3										
4										
5										
6										
7										
8										
9										
10										

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Related Documents

User Manual	Yes ✓	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

Md. Al-Mamun

Commissioning Engineer

Date: 19.10.2021

For Customer

21-10-2021

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	OK	Not Ok	Delighted	Very Satisfactory	Satisfactory	Unsatisfactory
Operation Procedure Explanation	Ok	Not Ok	**Remarks (If any):**			
Service Engineer Behavior	Ok	Not Ok				
Additional Work / service/Commissioning Done	Ok	Not Ok				

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Electrical and Mechanical Installation Sheet

Serial Number:

Project Name	WOOLIM PLANT	**kVA/Model**	150 / PL 150
Address:	Matarbari, Cox's Bazar	**Date**	14.10.2021

STEP 1 : Check points when shipment arrive to site		Remarks
Engine & Alternator		
1	No visual damage to engine or generator.	NO
2	Visual damage to engine or generator.	NO
3	Gen set Placement (Leveling & bolting)	OK
If there is any visual damage, please inform concern dept.		

Step 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		Open place
3	Dust proof, neat and clean	OK		Open place

Step 3 : Cable selection & termination		Ok	Not ok	Remarks
1	Check the power cable rating and insulation quality	OK		
2	Check the control & signal cable	OK		
3	Cable laying & dressing	OK		
4	Cable marking & termination	OK		
5	Cable trench / tray (If any)		Not ok	
6	Power cable connections from Alternator - ACB, ACB-ATS,ATS-LT	OK		
7	LT/Load are correct (Balanced)	OK		
8	Phase Sequence	OK		

Step 4 : Earthing System/connection		Ok	Not ok	Remarks
1	Separate earthing for generator	OK		
2	Earthing result below 1 ohm	OK		
3	Connection from earthing bar to generator/ATS (body & neutral)	OK		

Step 5 : Exhaust/silencer System-		Ok	Not ok	Remarks
1	Mounting of Exhaust silencer			
2	Rigid / flexible fixing of exhaust pipe			
3	Diameter & Length of exhaust pipe *			
4	Support system			Adjust Silencer
5	Extra flexible if required			Pipes did not work.
6	Rain cap			
7	Insulation & Quality			
8	Alignment			
9	Drainage point			
10	Gasket fittings and leveling			
11	Bolting, tightening & welding			

STEP 6 : Radiator System		Ok	Not ok	Remarks
1	Ducting Dimension			There is no need to Ducting.
2	Opening area of ducting			

3	Canvas cloth fitting			/
4	Support system			
5	Out flow / louver			
6	Water Drain line	Ok		
7	Coolant Spec	Ok		
8	DM Water	Ok		

STEP 7 : Fuel System		Ok	Not ok	Remarks
1	Check fuel day tank placement / capacity *	Ok		
2	Check fuel reservoir placement / capacity *	Ok		
3	Fuel feed line (MS pipe Diameter)	Ok		
4	Fuel return line (MS pipe ,Diameter)	Ok		
5	Fuel tank height & size/capacity (for 4000 series)	Ok		

STEP 8 : Ventilation System		Ok	Not ok	Remarks
1	Check all ventilation blowers are installed as per engine requirement, wiring and its connection to DB/MCC.	Ok		
2	Ducting for ventilation system	Ok		
3	Check the air flow/capacity of the ventilation fan	Ok		
3	Louver/ ventilation fan placement / condition checking (if necessary)	Ok		
4	Pre-filtration system for air intake	Ok		

STEP 9 : Miscellaneous		Ok	Not ok	Remarks
1	Breather pipe extension	Ok		
2	Battery terminal connection and its condition.	Ok		
3	Check availability of distilled water, lube oil, coolant and diesel for commissioning as required	Ok		
4	Check hanging condition of the ATS on the wall.	Ok		
5	Visual condition of the Canopy, ATS, Fuel tank etc.	Ok		
6	Lube oil drain line	Ok		
7	Check and make overall comment on environmental condition to run the generator	Ok		

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

Cross world Personnel : Md. Al- Mamun Signed : Date : 14.10.2021

End user personnel : Md. Mehedi Hassan Signed : Date : 21-10-2021

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COMPLETION CERTIFICATE

DATE: 14.10.2021

To,

WOOLIM PLANT Engineering and construct.

Project Name : 120 MW Ultra Super Critical Coal power plant, Matarbari, cox's Bazar.

COMPLETION CERTIFICATE OF DIESEL GENERATING SET PLANT ID: 21E13701E/1
MODEL # PL 150

Dear Sir,

We have since completed installation, testing and commissioning of above generating set with model PL-150 and tested it as per **ALLAM's** manual on the Date 14.10.21 in presence of your representative/operator and found satisfactory performance in all respect and handed over its key and all the relevant standard accessories, equipment and manuals to your representative.

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 next 02 Years/3000 Hours from the date of delivery which come first, 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.

Md. Al-Mamun

For and on behalf of

received the Plant in
Good order & condition.

21-10-2021

Note:- Cube oil filter, Air filter, Fuel filter, Cube Oil and engine genune parse must be used. If engine work efficiency will be good. If you do not have an engine problem. (Cube oil provided customer Super Dynamic 15W-40)

Cross-world

DATE: 14.10.2021

To,

WOOLIM PLANT Engineering and construct

Project Name : 1200 MW Ultra Super Critical coal power plant, Matarbari, Cox's Bazar.

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