

PTC India Financial Services Limited

New Delhi

September 19, 2022

Field Visit Report:

- **Danu Wind Parks Private Limited- DANU-II**

Nelakota, Anantapur District, Andhra Pradesh

DWPPL is promoted by Ecoren One Wind Energy Private Limited (EOWEPL), which is promoted by Ecoren Energy India Private Limited (EEIPL) which is in the business of developing wind power projects and has executed projects (as EPC/BoP contractor).

A Term Debt of Rs. 169.00 Cr. was sanctioned to the company for setting up 11 Wind Mills 25.3MW (11x 2.3MW) Plant at, Andhra Pradesh in 2016.

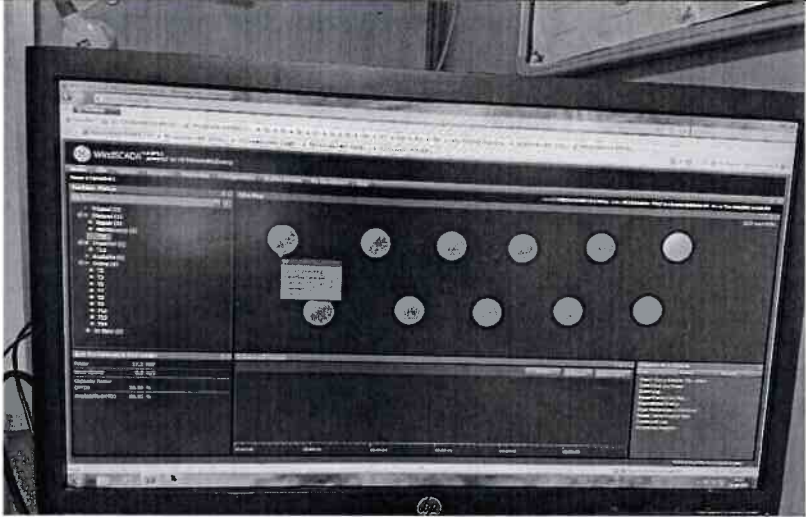
The company has a 25 yrs PPA with Andhra Pradesh State Utility at Nelakota, Anantapur District Rs. 4.84/unit.

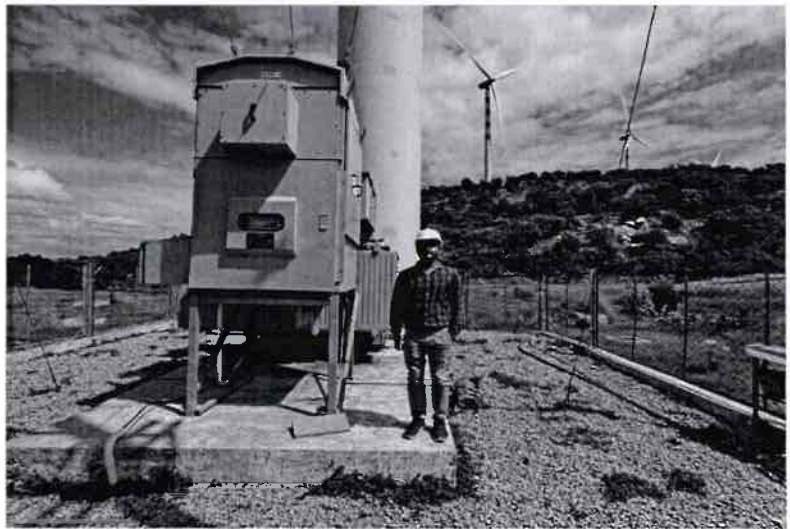
There is a Stress in the account due to untimely repayment of the debt on account of delay in Receipt of Tariff from AP State Utility. Hence, the account is categorized under EWS Category.

As on date Outstanding Term Debt is Rs. 169.27 Cr.

A field inspection was conducted on 16.09.2022 (Friday), key observations have been mentioned in the table below:

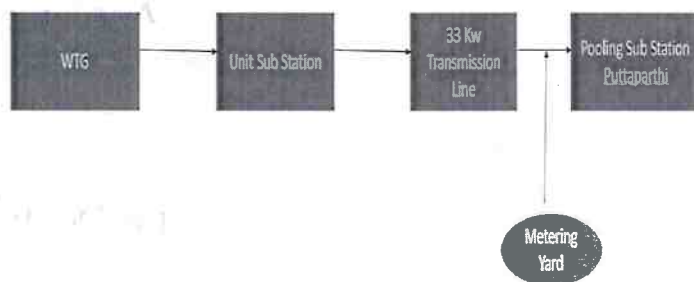
Date	16.09.2022
Company Official	Ravi Kumar, Site Manager
Project Details	There are 12 wind mills on the site out of which 11 are having PPA with AP Discom and 1 is not having PPA. It is under consideration that the Energy from that one Wind Mill to be supplied directly to Industries. Total Project Capacity is 25.3 MW (11*2.3MW)
Plant Availability Factor	98-99%
Location	Nelakota, Darsinamala, Ganginepalli village in Anantapur District of Andhra Pradesh
Status of Wind Mills - operations	9 Wind Mills were working properly. Working of one wind mill was affected owing to Main Bearing Replacement (T-11) 1 Wind Mill was not operating that does not have a signed PPA.

	 <p>Parrot Indicator reflects Operational Wind Mills Light Green Indicator reflects some breakdown maintenance due to which operations have been interrupted. Yellow Indicator reflects Windmill is not operational at present.</p>
Operation and Maintenance	<p>There are 2 types of Maintenance- Annual and Half-Yearly Annual Maintenance takes 16 dedicated hours. And Bi-annual Maintenance takes 6-8 dedicated hours for each Wind Mill. EBOP – Transmission Line and Units Operations has been entrusted to Ecoren (Outsourced by Ecoren to Membubnagar Energy Projects P. Ltd.) WTG Maintenance has been entrusted to Gee (the events like breakdown maintenance) The company's control Room has 9 members- 5 from Ecoren Team and 4 from Gee Team. For night Shift 1 employee from each team stays at the site.</p>
Wind Trends	<p>June to September are High Wind Seasons while other months in the year are low wind seasons. It has been difficult to establish a trend during last 2 years as the wind speed was even slow in High Wind Seasons. However, in present year, June to September has witnessed high winds. Talking about wind speed, At the time off visit it was around 9.0 m/s on an average, power generation by one wind mill 1840 kW.</p>
How it works?	<p>Energy is converted from AC to DC for Transmission. There is a Load Dispatch center that curtails the load.</p>



The power generated by wind mill transmitted by underground Cables to this generator/ convertor in picture above which converts 690 V to 33 kV for transmission.

Thereafter the power is transmitted to Unit sub station that can involve some transmission losses on the way.



Miscellaneous	<ul style="list-style-type: none"> As informed, Appx. For last 3 years there were issues relating to Tariff rate an account of which no Tariff was received during the period. However the matter has been resolved by the judiciary's judgement and all pending dues will be received within 12 monthly installments and one installment has been received so far. In Jan- Feb 2022, Gee who is responsible for WTG maintenance suspended it operations due to which maintenance activity could not be done timely.
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Enclosed: Inspection Pictures have been attached in Annexure.

Sahil

SAHIL MAKKAR

(Manager)

VP(AB)

Abhinav may pl see

Ms Abhinav Koder may see in p

[ED(VSB)]

Facts of project are OK.

27/9/22

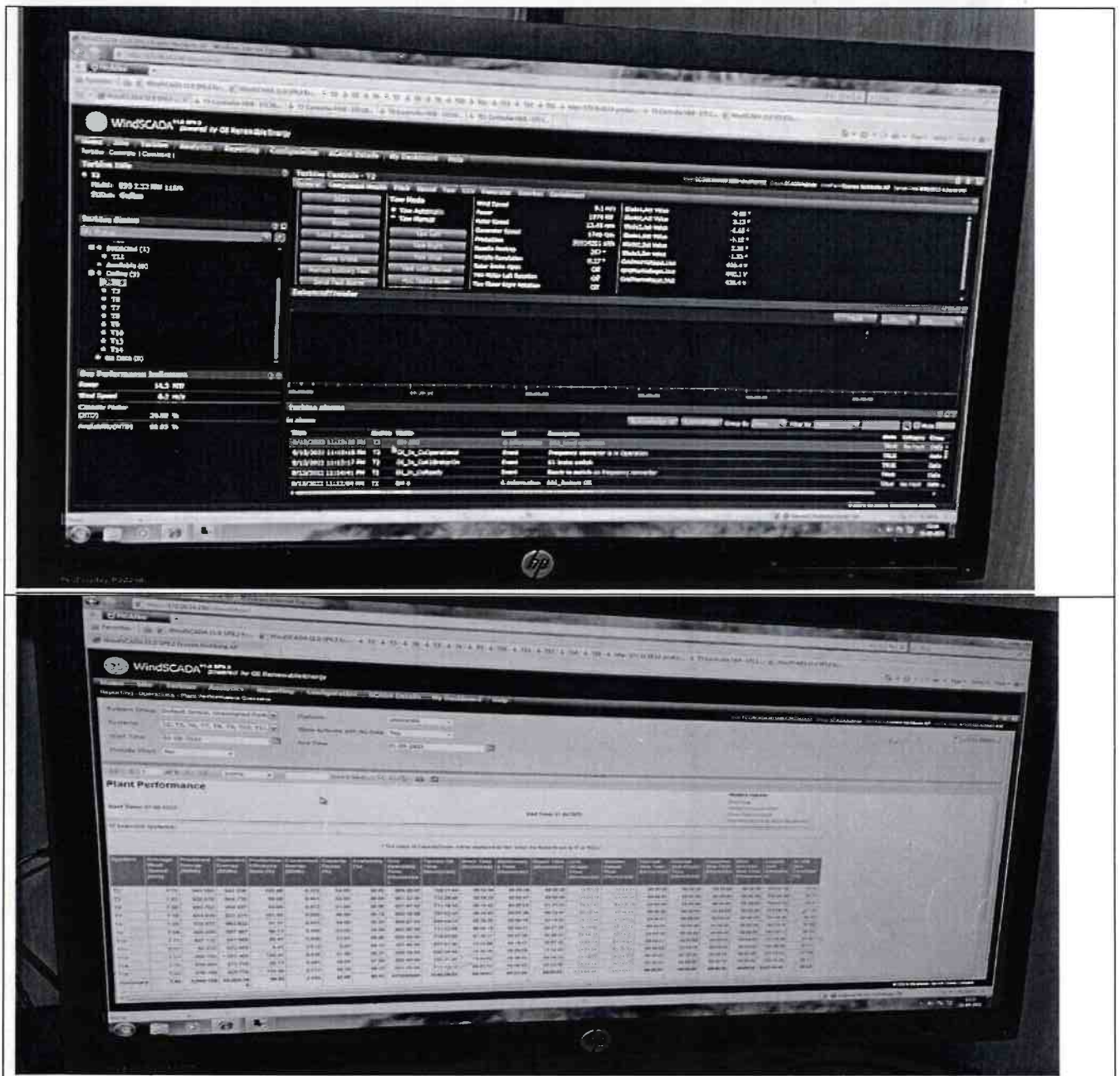
AVP(AS) *14.10.22*

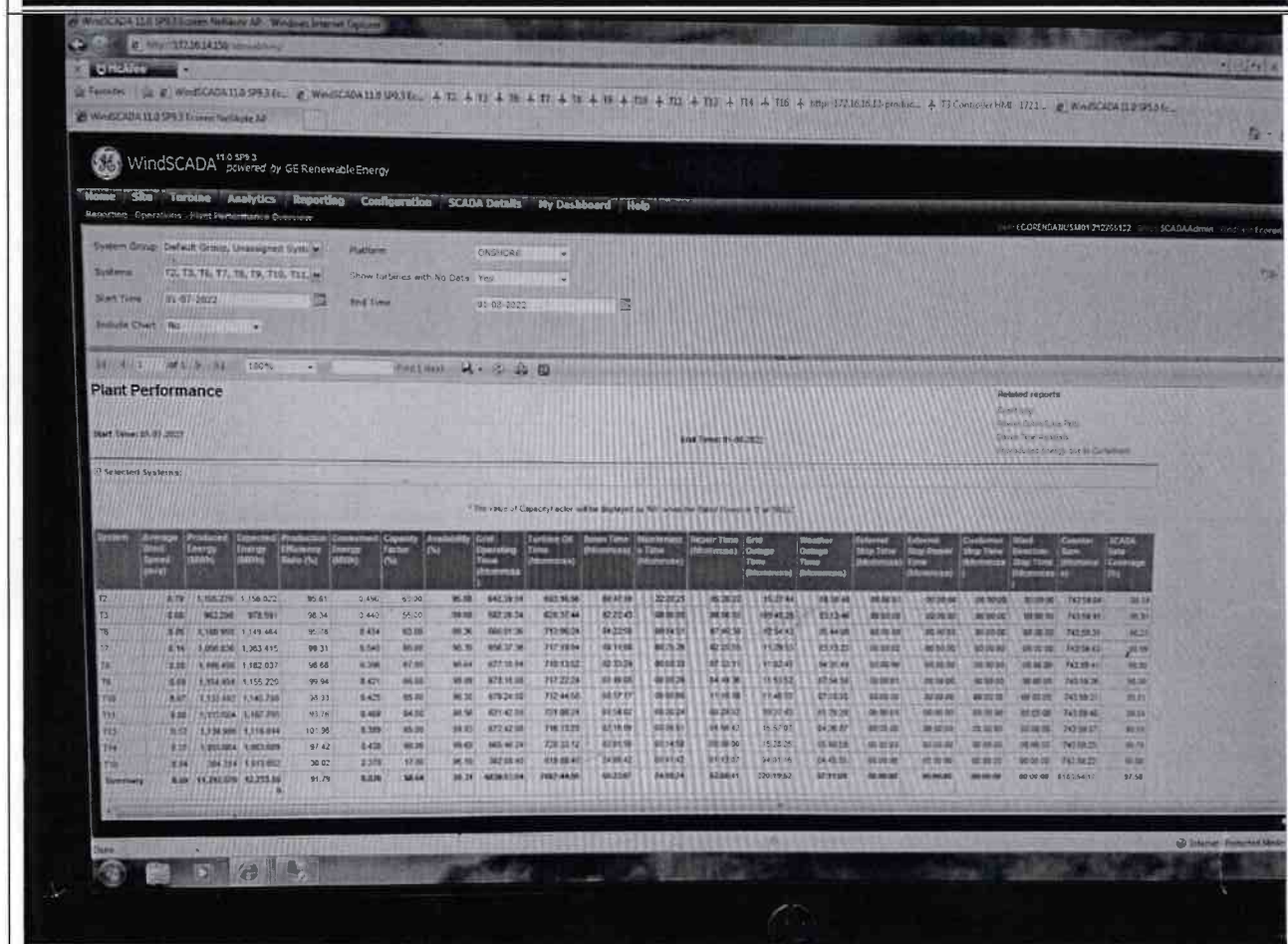
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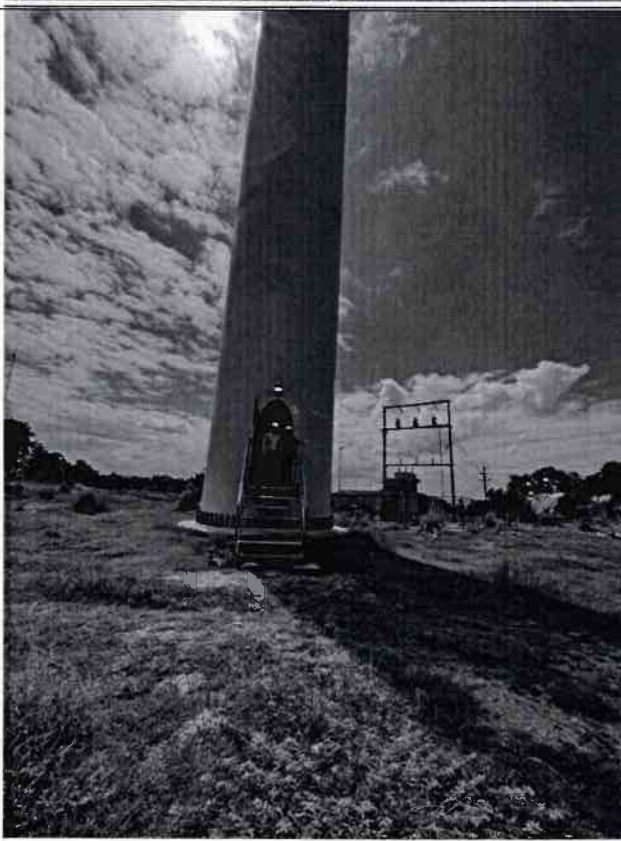
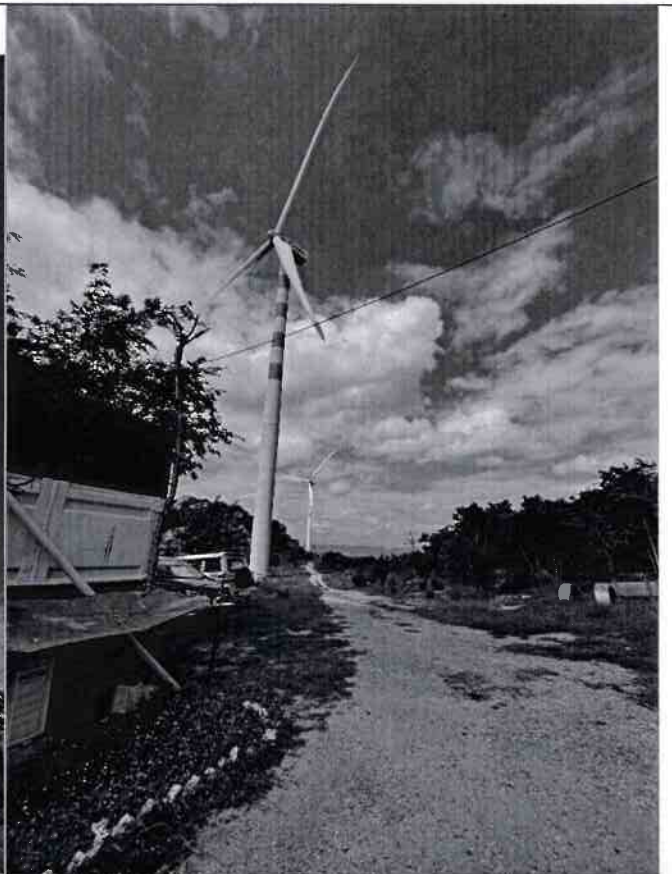
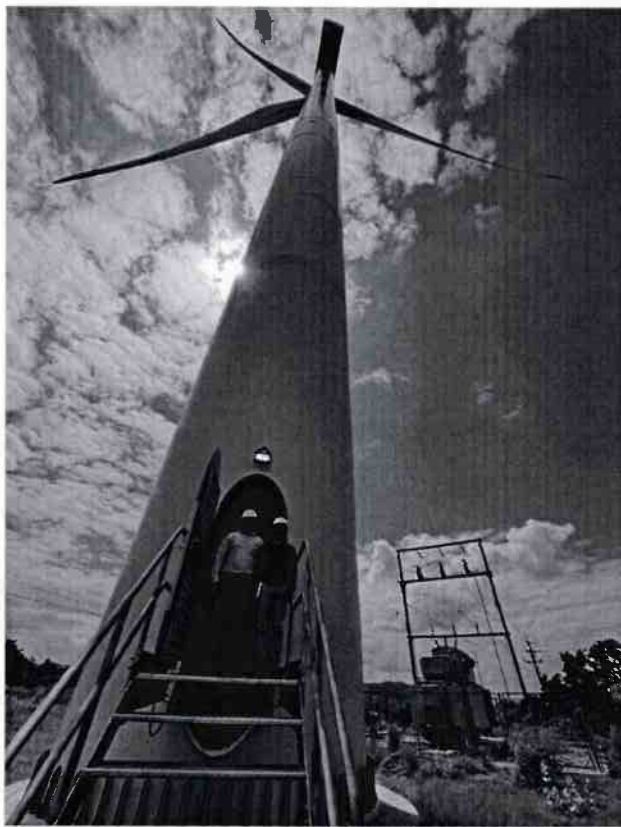
ED(VSB) *17/10/22*

Ms Abhinav - pl p.u. in file

Annexure:









Name & Location of the Plant: Dams Wind Park Ltd, Nelspruit
Capacity of Plant: 23.0MW
Location of Metering: 132/33 KV Puffastry Substation
HTSNO: A17724

FORM - M1 METER READINGS

Vendor Code	Pooling station Code	Stage Code	Agreement Code
2022	2022	August	04-09-2022
Billing Year	Billing Month	Date of Reading	Time of Reading
09:39:02			

2. METER MANAGEMENT DETAILS
Whether seals are intact: ☒ Yes ☐ No
If No, Remarks:

Description	Unit	Main Meter	Check Meter	Standby Meter
Make	SECURE	SECURE	SECURE	SECURE
Meter Number	APX01543	APX01284	APX01285	
Type	EN0024	EN0024	EN0024	
Meter CT Ratio	300	300	300	
Meter PT Ratio	33KV	33KV	33KV	
Multiplier	110V	110V	110V	
Class of Accuracy	0.2s	0.2s	0.2s	
Year of Manufacturing	2017	2016	2016	

Unit	R	Y	B	Unit	R	Y	B
Make	Vamet Industries	Vamet Industries	Vamet Industries	Make	Vamet Industries	Vamet Industries	Vamet Industries
SLNo	COF1712322	COF1712321	COF1712324	SLNo	VOF175346	VOF175347	VOF175348
Class	0.2s	0.2s	0.2s	Class	0.2	0.2	0.2
Burden VA	5	5	5	Burden VA	10	10	10
Ratio PRI-A	500	500	500	Ratio PRI-A	33KV/V3	33KV/V3	33KV/V3
Ratio SEC-A	1	1	1	Ratio SEC-A	110V/V3	110V/V3	110V/V3
Ratio PRI-B	500	500	500	Ratio PRI-B	33KV/V3	33KV/V3	33KV/V3
Ratio SEC-B	1	1	1	Ratio SEC-B	110V/V3	110V/V3	110V/V3
Year of Manufacturing	2017	2017	2017	Year of Manufacturing	2017	2017	2017

Unit	R	Y	B	Unit	R	Y	B
Make	Vamet Industries	Vamet Industries	Vamet Industries	Make	Vamet Industries	Vamet Industries	Vamet Industries
SLNo	COF1712322	COF1712321	COF1712324	SLNo	VOF175346	VOF175347	VOF175348
Class	0.2s	0.2s	0.2s	Class	0.2	0.2	0.2
Burden VA	5	5	5	Burden VA	10	10	10
Ratio PRI-A	500	500	500	Ratio PRI-A	33KV/V3	33KV/V3	33KV/V3
Ratio SEC-A	1	1	1	Ratio SEC-A	110V/V3	110V/V3	110V/V3
Ratio PRI-B	500	500	500	Ratio PRI-B	33KV/V3	33KV/V3	33KV/V3
Ratio SEC-B	1	1	1	Ratio SEC-B	110V/V3	110V/V3	110V/V3
Year of Manufacturing	2017	2017	2017	Year of Manufacturing	2017	2017	2017

Name & Location of the Plant: Dams Wind Park Ltd, Nelspruit
Capacity of Plant: 23.0MW
Location of Metering: 132/33 KV Puffastry Substation
HTSNO: A17724

Billing Year	Billing Month	Date of Reading	Time of Reading
2022	August	04-09-2022	9:39:02

Interconnection point (ICP)	Generator end	TRANSCO SS end	JOUCOM SS end
Meter location	ICG	ICG	ICG
Meter Type	ICG	ICG	ICG
Meter Number	APX01544	APX01284	APX01285

Instantaneous Parameters	Reading	Reading	Reading
001 Vm	15.64	15.64	15.64
002 Vm	15.65	15.65	15.65
003 Vm	15.67	15.67	15.67
004 Ir	78.56	58.64	50.61
005 Iy	82.37	60.85	51.85
006 Ib	76.82	58.64	48.19
007 Power Factor	0.965	0.958	0.956
008 Frequency	50.07	50.15	50.04
009 MW	4.05	3.07	2.66
010 MVAR	1.00	0.94	0.74
011 MWK	4.33	3.11	2.80
012 Vbdr	0.58	1.82	0.96
013 Vbdr	0.61	1.86	0.91
014 Vbdr	0.66	0.99	0.90
015 Vbdr	4.51	10.06	5.71
016 Vbdr	4.77	9.09	5.18
017 Vbdr	5.33	5.68	6.32
018 Vbdr			
019 Vbdr	9574.40	7421.20	7370.70
020 Vbdr	11.40	12.20	13.00

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Billing Year	Billing Month	Date of Reading	Time of Reading
2022	August	04-09-2022	9:39:02

Energy Parameters	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
Energy parameter code	Energy Parameters	Main Meter	Check meter	Stand By		
001	WATT	171.21	171.21	171.21	171.21	171.21
002	WATT	171.21	171.21	171.21	171.21	171.21
003	WATT	171.21	171.21	171.21	171.21	171.21
004	WATT	171.21	171.21	171.21	171.21	171.21
005	WATT	171.21	171.21	171.21	171.21	171.21
006	WATT	171.21	171.21	171.21	171.21	171.21
007	WATT	171.21	171.21	171.21	171.21	171.21
008	WATT	171.21	171.21	171.21	171.21	171.21
009	WATT	171.21	171.21	171.21	171.21	171.21
010	WATT	171.21	171.21	171.21	171.21	171.21
011	WATT	171.21	171.21	171.21	171.21	171.21
012	WATT	171.21	171.21	171.21	171.21	171.21
013	WATT	171.21	171.21	171.21	171.21	171.21
014	WATT	171.21	171.21	171.21	171.21	171.21
015	WATT	171.21	171.21	171.21	171.21	171.21
016	WATT	171.21	171.21	171.21	171.21	171.21
017	WATT	171.21	171.21	171.21	171.21	171.21
018	WATT	171.21	171.21	171.21	171.21	171.21
019	WATT	171.21	171.21	171.21	171.21	171.21
020	WATT	171.21	171.21	171.21	171.21	171.21
021	WATT	171.21	171.21	171.21	171.21	171.21
022	WATT	171.21	171.21	171.21	171.21	171.21
023	WATT	171.21	171.21	171.21	171.21	171.21
024	WATT	171.21	171.21	171.21	171.21	171.21
025	WATT	171.21	171.21	171.21	171.21	171.21
026	WATT	171.21	171.21	171.21	171.21	171.21
027	WATT	171.21	171.21	171.21	171.21	171.21
028	WATT	171.21	171.21	171.21	171.21	171.21
029	WATT	171.21	171.21	171.21	171.21	171.21
030	WATT	171.21	171.21	171.21	171.21	171.21
031	WATT	171.21	171.21	171.21	171.21	171.21
032	WATT	171.21	171.21	171.21	171.21	171.21
033	WATT	171.21	171.21	171.21	171.21	171.21
034	WATT	171.21	171.21	171.21	171.21	171.21
035	WATT	171.21	171.21	171.21	171.21	171.21
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037	WATT	171.21	171.21	171.21	171.21	171.21
038	WATT	171.21	171.21	171.21	171.21	171.21
039	WATT	171.21	171.21	171.21	171.21	171.21
040	WATT	171.21	171.21	171.21	171.21	171.21
041	WATT	171.21	171.21	171.21	171.21	171.21
042	WATT	171.21	171.21	171.21	171.21	171.21
043	WATT	171.21	171.21	171.21	171.21	171.21
044	WATT	171.21	171.21	171.21	171.21	171.21
045	WATT	171.21	171.21	171.21	171.21	171.21
046	WATT	171.21	171.21	171.21	171.21	171.21
047	WATT	171.21	171.21	171.21	171.21	171.21
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052	WATT	171.21	171.21	171.21	171.21	171.21
053	WATT	171.21	171.21	171.21	171.21	171.21
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059	WATT	171.21	171.21	171.21	171.21	171.21
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067	WATT	171.21	171.21	171.21	171.21	171.21
068	WATT	171.21	171.21	171.21	171.21	171.21
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072	WATT	171.21	171.21	171.21	171.21	171.21
073	WATT	171.21	171.21	171.21	171.21	171.21
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075	WATT	171.21	171.21	171.21	171.21	171.21
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079	WATT	171.21	171.21	171.21	171.21	171.21
080	WATT	171.21	171.21	171.21	171.21	171.21
081	WATT	171.21	171.21	171.21	171.21	171.21
082	WATT	171.21	171.21	171.21	171.21	171.21
083	WATT	171.21	171.21	171.21	171.21	171.21
084	WATT	171.21	171.21	171.21	171.21	171.21
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086	WATT	171.21	171.21	171.21	171.21	171.21
087	WATT	171.21	171.21	171.21	171.21	171.21
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089	WATT	171.21	171.21	171.21	171.21	171.21
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092	WATT	171.21	171.21	171.21	171.21	171.21
093	WATT	171.21	171.21	171.21	171.21	171.21
094	WATT	171.21	171.21	171.21	171.21	171.21
095	WATT	171.21	171.21	171.21	171.21	171.21
096	WATT	171.21	171.21	171.21	171.21	171.21
097	WATT	171.21	171.21	171.21	171.21	171.21
098	WATT	171.21	171.21	171.21	171.21	171.21
099	WATT	171.21	171.21	171.21	171.21	171.21
100	WATT	171.21	171.21	171.21	171.21	171.21

Executive Engineer
CDM Services Division
A.P. Tugela, Nelspruit

Operation & Maintenance
KABU

