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THE TANZANIA METEOROLOGICAL AUTHORITY ACT,
(CAP. 157)

REGULATIONS

(Made under section 54(2)(i))

THE TANZANIA METEOROLOGICAL AUTHORITY (COST RECOVERY ON
METEOROLOGICAL SERVICES) REGULATIONS, 2021

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PART I
PRELIMINARY PROVISIONS

Citation
and
commence
ment

1. These Regulations may be cited as the Tanzania Meteorological Authority (Cost Recovery on Meteorological Services) Regulations, 2021, and shall come into operation on the 1st day of July, 2021.

Application

2. These Regulations shall apply to costs recovery on meteorological services rendered by the Authority except for services rendered to institutions of the Revolutionary Government of Zanzibar.

Interpretation

3. In these Regulations, unless the context requires otherwise-

Cap. 157

“Act” means the Tanzania Meteorological Authority Act;
“agriculture and food security activities” means all activities relating to farming of different crops, rearing of animals for the purpose of production of food and other products consistent with reliability of safe and nutritious food;
“Authority” means the Tanzania Meteorological Authority established under the Act;
“cost recovery” means a system of fees and specific purpose taxes used by a Government agencies to recoup some or all of the costs of particular Government activities;
“commercial use” means utilisation of commercial services provided for in the Third Schedule to the Act;

“consultancy services” means services provided by the Authority in relation to the establishment of systems such as quality management system, competency assessment and standards, meteorological stations, specifications of instruments, calibration of meteorological instruments and equipments, cost recovery strategies, capacity building or training on meteorological related matters;

“customer” means a person who receives goods, services, products or an idea from the Authority by specifying how it will be provided through financial transaction; and

“industrial activities” means the activities performed under different industries including, prediction of demand for weather-dependent products, pollution abatement, architectural design and construction, efficient use of machinery and waste disposal, goods and products designing, marketing and production, transportation of raw materials, goods and products;

“marine services” means the services in respect of towage and pilotage of vessels, sounding of fairways and other navigable waters, the supply of water and fuel to vessels and sunken vessels, salvage of vessels, the fighting of fires aboard vessels;

“marine meteorological services” means the services provided for the purpose of saving life and property to all operations taking place at Ports or harbors and land-based support operations, coastlines and high seas;

“user” means a person who receives a product or service and bases his decisions on it.

PART II COST RECOVERY IN PROVISION OF METEOROLOGICAL SERVICES

Cost for
providing
meteorologic

4.-(1) The Authority shall implement cost recovery for sustainability of meteorological infrastructure to ensure

- al services continuity of service delivery.
- (2) The production cost of providing meteorological service shall comprise of the cost of collecting, analysing, processing, packaging and disseminating the required meteorological observations, data and information.
- Fees and charges 5.-(1) The cost recovery for services rendered by the Authority to a customer under these Regulations shall be paid in form of fees and charges.
- (2) The fees and charges to be paid under these Regulations shall be as specified in the Schedule to these Regulations.
- Principles of cost recovery 6. The Authority shall, in implementing cost recovery adhere to the following principles:
- (a) non-discrimination;
 - (b) related cost;
 - (c) transparency; and
 - (d) consultation with users.

PART III METEOROLOGICAL SERVICES FOR COMMERCIAL USE

- Obligation of customer 7. A customer shall be required to-
- (a) utilise secured meteorological services supplied by the Authority;
 - (b) promote, facilitate, coordinate and improve the use of specialised meteorological services in the daily activities;
 - (c) realise full benefit of specialised meteorological services, products, new opportunities and advancement promoted and advertised by the Authority;
 - (d) pay fees and charges for services received; and
 - (e) use the services provided for respective purposes.
- Meteorological services 8.-(1) The Authority shall provide the following meteorological services for airports and air navigation:

for airports
and air
navigation

- (a) Significant Meteorological Information (SIGMET);
- (b) volcanic ash advisories;
- (c) tropical cyclone advisories;
- (d) weather reports for incidences;
- (e) search and rescue forecasts;
- (f) terminal aerodrome forecasts;
- (g) trend forecasts;
- (h) aerodrome warnings;
- (i) wind shear warnings;
- (j) aerodrome weather reports;
- (k) area forecasts;
- (l) area QNH;
- (m) airport weather briefings;
- (n) upper level analysis and prognosis charts;
- (o) World Area Forecast System (WAFS) wind and temperature charts;
- (p) WAFS significant weather charts;
- (q) low level significant weather charts;
- (r) WAFS forecast route sector winds and temperatures;
- (s) aerodrome climatological information;
- (t) briefing services;
- (u) aerodrome weather information service;
- (v) flight documentation; and
- (w) any other services as the Authority may prescribe by notice in writing.

(2) The airports and air navigation customer shall use meteorological services for-

- (a) planning flight operation, including the choice of route for various purposes; and
- (b) airport operations.

Meteorological services
for maritime
activities

9.-(1) The Authority shall provide the following marine meteorological services to maritime customers:

- (a) warnings on tropical cyclones;
- (b) daily weather forecasts, state of sea or lake and forecasts of winds, waves and tides;
- (c) weather instruments for marine observations;

- (d) severe weather warnings;
 - (e) tsunami warning and advisories;
 - (f) distribution of sea surface temperature for identification of fishing grounds;
 - (g) up-welling and sea currents;
 - (h) weather reports for seaweed farmers;
 - (i) phases of the moon for fish concentrations;
 - (j) cloudiness or sunshine hours;
 - (k) length of dry or wet season; and
 - (l) specific meteorological data including relative humidity and temperature.
- (2) A marine customer shall use meteorological services in ports and harbours, lakes, coastal zone and high seas for-
- (a) effective management of harbours operations including decisions about safeguarding harbours and dykes against flooding;
 - (b) dockage, pilotage, mooring and unmooring, lighterage and other services to ships;
 - (c) cargo and container handling;
 - (d) shipping and fishing activities;
 - (e) entering and leaving the port;
 - (f) salt production;
 - (g) planning of marine transportation for protection of human life and property;
 - (h) planning and tactical use in decisions including whether to sail, when to sail, and by which route to sail for purposes of reducing the number of accidents and greater profit;
 - (i) search and rescue operations; and
 - (j) helping identification of fish concentrations.

Meteorological services for oil and gas activities

- 10.-(1) The Authority shall provide the following meteorological services for oil and gas activities:
- (a) warnings on tropical cyclones;
 - (b) daily weather forecasts, state of sea or lake and forecasts of winds, waves and tides;
 - (c) weather instruments for marine observations;
 - (d) severe weather warnings including tsunami;
 - (e) length of dry or wet season; and

(f) specific meteorological data including relative humidity and temperature.

(2) The oil and gas customer shall use meteorological services in ports and harbours, over lakes, coastal zone, high seas and inland for-

- (a) oil and gas exploration and extraction;
- (b) transportation and storage of oil and gas;
- (c) decisions about safeguarding against flooding and protection of oil rigs and exploration vessels;
- (d) route and planning alternatives; and
- (e) any other oil and gas related activities.

Meteorological services for industrial activities

11.-(1) The Authority shall provide the following meteorological services for industrial activities:

- (a) historical climatological data for a specific area including extremes;
- (b) tailor-made or co-designed weather forecasts; and
- (c) warnings of severe events including tsunami.

(2) A customer shall use the following meteorological services for industrial activities:

- (a) predicting the demand for weather-dependent products;
- (b) pollution abatement;
- (c) designing and construction purposes, including location determination;
- (d) efficient use of machinery and waste disposal;
- (e) designing, marketing and production of goods and products; and
- (f) transportation of raw material, goods and products.

Meteorological services for sports, recreation and tourism activities

12.-(1) The Authority shall provide the following meteorological services for sports, recreation and tourism activities:

- (a) weather conditions;
- (b) severe weather warnings including tsunami;
- (c) hours of daylight;
- (d) visibility day length;

- (e) sunshine hours and cloudiness;
- (f) air temperature, humidity, lake and sea waves, solar radiation and winds;
- (g) seasonal outlooks; and
- (h) number of dry and hot days.

(2) The customer shall use meteorological services for the following sports, recreation and tourism activities:

- (a) planning outdoors activities well in advance;
- (b) sport programs;
- (c) surfing or boat trips;
- (d) gliding and hot air balloons;
- (e) travel planning;
- (f) surfing, gliding, balloons or any other related activity;
- (g) affecting wildlife movements;
- (h) transportation, accommodation and retail services;
- (i) enjoyment, attractiveness of site, physical wellbeing and allergies available;
- (j) keeping customers informed about the expected weather at the destination for the possibility of packing including right clothes and equipment for the vacation; and
- (k) any other related activity.

Meteorological services for water resources

13.-(1) The Authority shall provide the following meteorological services to water resources activities:

- (a) rainfall;
- (b) evaporation;
- (c) temperature;
- (d) rainwater harvesting and water resources structures;
- (e) flood forecasting;
- (f) irrigation planning; and
- (g) seasonal outlooks and updates.

(2) A customer shall use meteorological services for the following water resources activities-

- (a) hydrological activities;
- (b) construction and management of dams;
- (c) effective planning and management of water

- resources and basins;
- (d) flood management; and
- (e) any other related activities.

Meteorological services for construction activities

14.-(1) The Authority shall provide the following meteorological services for construction activities:

- (a) rainfall amount and intensity;
- (b) temperatures and humidity;
- (c) the strength and direction of prevailing winds;
- (d) consecutive wet days and dry days within the forecast seasons for activities planning;
- (e) site specific weather forecasts including severe warnings; and
- (f) climatological data.

(2) A customer shall use meteorological services for the following construction activities:

- (a) decision basis as regards the implementation of major construction works including erection of a scaffold tower for reduced loss of human life and property;
- (b) decisions regarding planning, designing and dimensioning of building structures;
- (c) decision on materials and equipment to be used in construction;
- (d) appropriate and effective timing of construction; and
- (e) any other related activities.

Meteorological services for agriculture and food security

15.-(1) The Authority shall provide the following meteorological services for agricultural activities:

- (a) forecasts of daily to seasonal timescale;
- (b) warnings of extreme weather and climate conditions;
- (c) onset and cessation of rainfall seasons;
- (d) advice on possibility of drought conditions;
- (e) advice on long-term climate change;
- (f) training on interpretation of weather and climate information; and

(g) any other related services.

(2) A customer shall use meteorological services for the following agricultural activities:

- (a) control of pests and diseases;
- (b) planning basis as regards choice of crops and determining the time for sowing, fertilisation, irrigation, spraying, and harvesting;
- (c) processing and storage of harvests;
- (d) transportation of agricultural and livestock products; and

Meteorological services for generation of energy

16.-(1) The Authority shall provide the following meteorological services for generation of energy:

- (a) radiation and sunshine hours;
- (b) wind speed and direction;
- (c) rainfall amount and intensity;
- (d) evaporation;
- (e) climate change projection;
- (f) daily to seasonal forecasts with updates and warnings of droughts and floods;
- (g) warnings of extreme weather and climate events;
- (h) climatological information; and
- (i) any other related service.

(2) A customer shall use meteorological services for the generation of energy for:

- (a) decision basis as regards, among other things, the planning of energy supply including for exploration of hydro-power, wind and solar energy potential;
- (b) locating reported errors on the grid and power stations;
- (c) allocation of staff, installation and repair works; and
- (d) any other related activity.

Meteorological services for environmental activities

17.-(1) The Authority shall provide the following meteorological services for environmental activities:

- (a) general weather information;

- (b) global warming and climate change data and information;
- (c) atmospheric pollution data;
- (d) climatological data as prescribed for a specific area including extremes;
- (e) tailor-made (co-designed) weather forecasts and warnings of severe events;
- (f) tsunami reports; and
- (g) any other related service.

(2) A customer shall use meteorological services for the following environmental activities:

- (a) planning basis as regards prediction of where an oil spill at sea will hit the coast for reduced loss of natural and environmental riches and property;
- (b) deposition of particles from the manufacturing industries;
- (c) pollution abatement;
- (d) Environment Impact Assessment and Strategic Environment Assessment;
- (e) waste management; and
- (f) any other related activity.

Meteorological services for mining activities

18.-(1) The Authority shall provide the following meteorological services for mining activities:

- (a) rainfall;
- (b) flood guidance;
- (c) climate change projection;
- (d) daily to seasonal forecasts with updates and warnings;
- (e) sunshine hours and cloudiness;
- (f) number of dry and hot days;
- (g) determining the occurrence of landslide and associated impacts;
- (h) warnings of extreme weather and climate conditions; and
- (i) any other meteorological related service.

(2) A customer shall use the following meteorological services for mining activities:

- (a) decision basis as regards the planning of mining

- activities;
- (b) safety of life and property at the site;
- (c) decision basis as regards planning of energy supply at the sites for improved exploitation of mining resources;
- (d) decisions regarding allocation of staff, and whether to shut down or open various installations for faster damage repair work at mining site;
- (e) pollution abatement;
- (f) designing and mining purposes, including location determination;
- (g) efficient use of machinery and waste disposal;
- (h) marketing of products and goods;
- (i) search and rescue operation;
- (j) transportation of mines by air, land and marine; and
- (k) any other related activity.

(3) For the purpose of this regulation, “a customer” means large scale miner, medium scale miner and small scale miner in accordance with the Mining Act and its Regulations.

Meteorological services for banking and insurance companies

19.-(1) The Authority shall provide the following meteorological services for banking and insurance activities:

- (a) weather forecasts;
- (b) severe weather including tsunami;
- (c) visibility day length;
- (d) sunshine hours and cloudiness;
- (e) air temperature, humidity, lake and sea waves, solar radiation and winds;
- (f) seasonal outlooks at a specific area;
- (g) number of wet, dry and hot days; and
- (h) any other related service.

(2) A customer shall use the following meteorological services for banking and insurance activities:

- (a) decision basis as regards the loan disbursement and loan repayment;

- (b) planning for future bank loans;
- (c) settlement of an insurance claim;
- (d) planning insurance premium; and
- (e) any other related activity.

Meteorological instruments and calibration services

20.-(1) The Authority shall provide the following meteorological services for meteorological instruments and calibration activities:

- (a) technical expertise;
- (b) training on management and handling of meteorological instrument;
- (c) inspection of calibrated meteorological instruments; and
- (d) any other related service.

(2) The customer for meteorological instruments and calibration shall-

- (a) identify proper location of meteorological station;
- (b) install, maintain and calibrate meteorological instruments;
- (c) inspect meteorological station; and
- (d) any other related activity.

Meteorological consultancy services

21.-(1) The Authority shall provide meteorological consultancy services for any customer.

(2) A customer shall use meteorological consultancy services for the following activities:

- (a) effective performance for their daily activities related to meteorology;
- (b) data management and analysis;
- (c) training services on meteorology and related services;
- (d) planning and establishing meteorological station networks;
- (e) environmental management services;
- (f) calibration and handling of meteorological instruments;
- (g) construction activities;
- (h) water resource management;
- (i) tourism and recreational activities;

- (j) obtaining specification for procurement of meteorological instrument and equipment; and
- (k) any other consultancy services.

Meteorological services for land transport

22.-(1) The Authority shall provide the following meteorological services for land transport activities:

- (a) severe weather warnings;
- (b) visibility;
- (c) significant weather condition;
- (d) seasonal outlooks; and
- (e) any other related services.

(2) A customer shall use the meteorological services for the following land transportation in-

- (a) railways;
- (b) road ways; and
- (c) any other related modes of transport.

Meteorological services for mobile phone operators

23.-(1) The Authority shall provide the following meteorological services for mobile phone operational activities:

- (a) air temperature, humidity, lake and sea waves, and wind direction and speed;
- (b) weather forecasts;
- (c) climatological data;
- (d) severe weather warnings including tsunamis;
- (e) visibility day length;
- (f) seasonal outlooks at a specific area; and
- (g) any other related service.

(2) The customer shall use the following meteorological services for mobile phone operational activities-

- (a) construction of communication infrastructure;
- (b) network performance optimization;
- (c) dissemination of weather information to various users; and
- (d) any other related activities.

PART IV GENERAL PROVISIONS

Offences and penalties

24. Any person who uses the meteorological services contrary to these Regulations commits an offence and upon conviction shall be liable to a fine of not less than one million shillings but not exceeding three million shillings or to imprisonment for a term of not less than six months but not exceeding twelve months or to both.

Time and manner for payment

25.-(1) A customer shall, within thirty days upon receipt of a payment invoice, effect the payment as demanded:

Provided that, where the customer fails without reasonable cause to pay such fee and charges within the prescribed time, he may in writing apply to the Authority for extension of time.

(2) Subject to subregulation (1), the Authority may grant extension of time for a period not exceeding thirty days.

Climatological data charge formula

26. For the purpose of calculating cost recovery on climatological data, products and services, the Authority shall use the following formula:

General formula: $Sc = (Ms + W/n (P + S)) r$

Whereas:

Sc= Cost Recovery Service Charge

$W = D * m * y$ (D = Workload factor i.e. 1,2,4 for Annual, Monthly and Daily respectively; m number of months, y number of years (W = Total workload)

Ms = minimum service charge (USD); (Daily – Dekad =60, Monthly = 20 and Annual 10)

P = number of parameters

S = number of stations

r = rate to convert cost recovery to a domestic currency

n = Standardization factor for different customers

For Diploma and Undergraduate students n= 20

For Masters and PhD student n= 18

For Government institutions and Local private firms n =...

For International Firms or Foreigner n= 2

SCHEDULE

(Made under regulation 5(2))

FEEES AND CHARGES FOR METEOROLOGICAL SERVICES

<i>S/ N</i>	<i>Type of service</i>	<i>Title</i>	<i>Fees and Charges</i>
1.	Meteorological services for airports and air navigation	(a) Landing and parking charges	10 percent of the collected landing and parking charges.
		(b) Air Navigation service charges	20 percent of air navigation service charges
2.	Meteorological services for maritime activities	Meteorological service charges for marine services	0.5 percent of marine service charges
3.	Meteorological services for industrial activities	Meteorological service charge for industrial operations	TZS 10,000 per report of each weather parameter upon request
4.	Meteorological services for agriculture and food security	Meteorological service charge for farming activities upon request	TZS 10,000 per report of each weather parameter upon request
5.	Meteorological services for energy activities	Meteorological service charge for energy activities	TZS 10,000 per report of each weather parameter upon request
6.	Meteorological services for mining activities	Meteorological safety oversight charges for mining activities	(a) For large scale Miners TZS 20,000,000/= per mine per year. (b) For medium scale Miners TZS 10,000,000/= per mine per year.
7.	Meteorological service banking and insurance companies	Meteorological charge for Banking and insurance activities	TZS 10,000 per report of each weather parameter upon request
8.	Meteorological consultancy services	Meteorological charges for Consultancy Services: (a) establishment of quality	TZS 30,000,000/= or its

Tanzania Meteorological Authority (Cost Recovery on Meteorological Services)

Gn. No. 642 (Contd.)

		management system and competency assessment system	equivalence within EAC and SADC and USD 30,000 for foreigners upon request
		(b) administrative cost of a third party project implemented by the Authority	5 percent of the project cost
9.	Meteorological services and products	Climatological Information	as per formula on data charges

Dodoma,
25th August, 2021

LEONARD M. CHAMURIHO
Minister for Works and Transport