



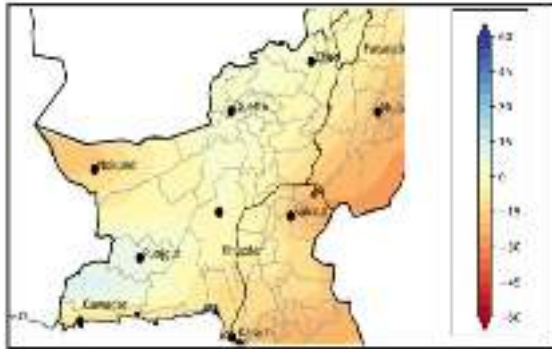
Pakistan Meteorological Department

# VOICE OF RMC QUETTA

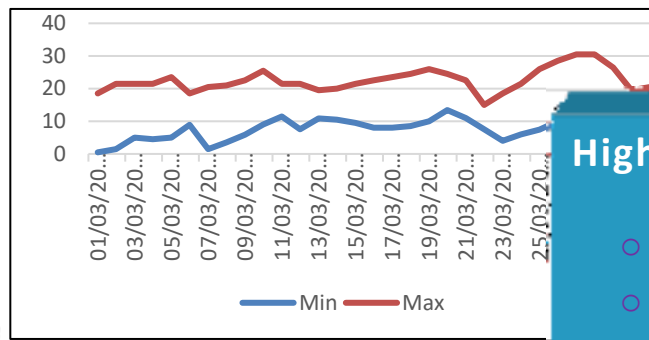
March 2021

Issue 3

Rainfall Departure (%) March 2021



Temp (Max & Min) Quetta March 2021



## Highlights

- Preface
- Summary
- Improvements brought in RMC
- Improvements brought in Observatories
- Required work at Observatories
- Weather summary



Regional Meteorological & Geophysical Center

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## PREFACE

**T**he primary aim of this publication is to highlight the status of primary data generating meteorological observatories because accurate observed data is of prime importance for monitoring and prediction of weather episodes. The report depicts strengths and weaknesses across observatories and emphasize for coordinated efforts at all levels to provide improved working environment in observatories.

Using social media, snaps of required work had been acquired from across the Balochistan region and few have been included in the report for visual assessment of working environment.

The efforts done by Regional Meteorological Center (RMC) for improving the working environment at Met stations during the last three months have also been highlighted.

I am pleased to acknowledge the efforts done by officers and staff of RMC for timely completing the assigned tasks specially Mr. Mukhtar Ahmed Magsi (Deputy Director), Mr. Naeem Siddiqui (S.E.E), Mr. Khawar Farial (Meteorologist), Mr. Muhammad Aslam (O/I observatories) and Mr. Azhar Ali (AP) for their hard work.

The RMC staff including Mr. Rehan Qayyum (CDEO), Mr. Shahid Nadeem (CDEO), Mr. Ejaz Ahmed (CDEO) and Mr. Ahmad Khan (Mech) also significantly contribution accomplishing the activities.

**Mr. Najeeb Ahmed Amir**

**Deputy Director**

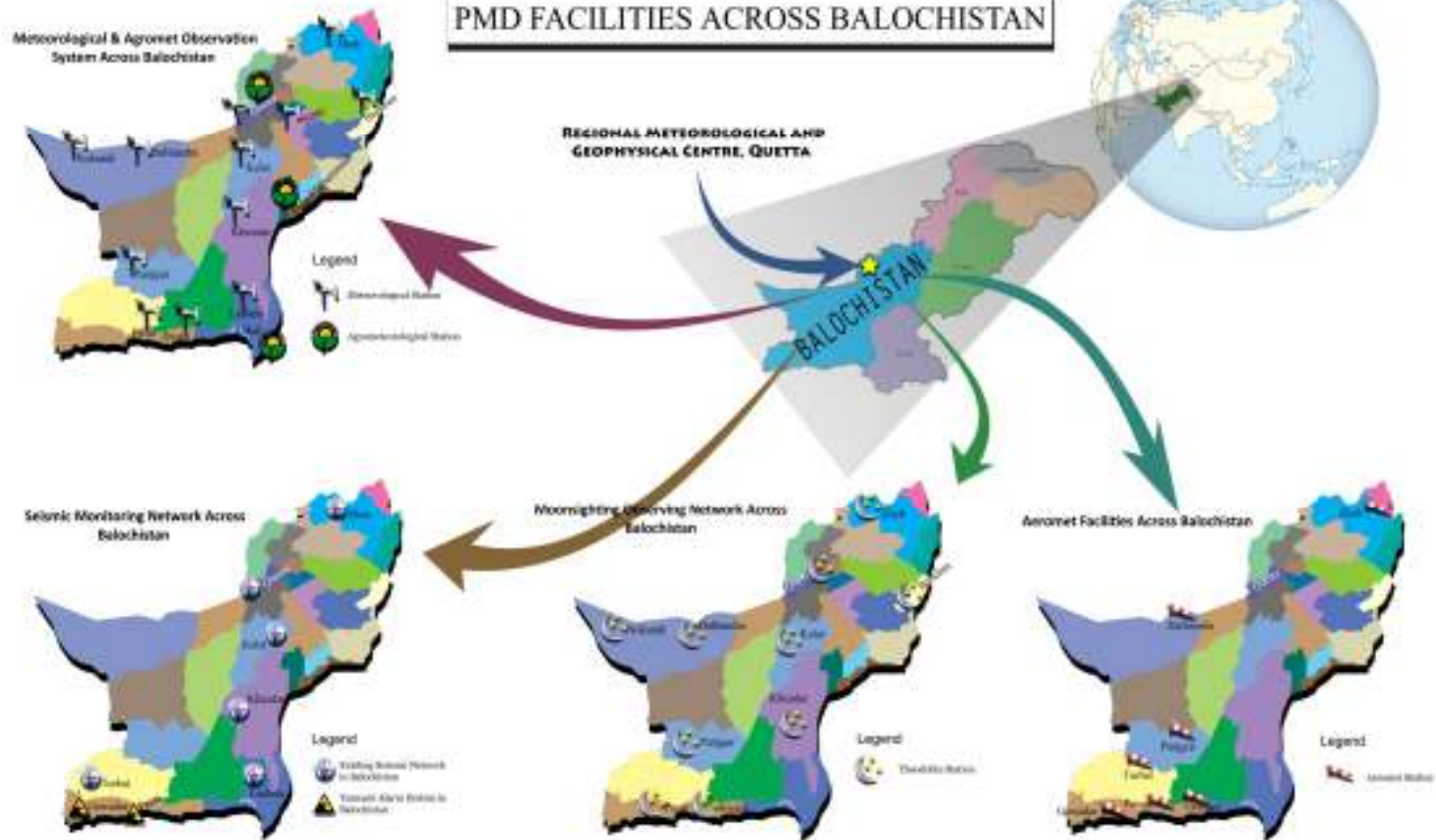
**RMC Quetta**

## Location Map of PMD Facilities across Balochistan



### PAKISTAN METEOROLOGICAL DEPARTMENT REGIONAL METEOROLOGICAL AND GEOPHYSICAL CENTRE QUETTA - BALOCHISTAN

#### PMD FACILITIES ACROSS BALOCHISTAN



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## Summary

Being the primary data generation and reporting units, meteorological observatories need to be patronized the most in the structure of a Meteorological Service. However, the met stations located across Balochistan were not taken care off since decades. Keeping in view the gravity of situation, immediate attention was given to improve the overall conditions of observatories and data acquisition instruments to build the image of PMD as a progressive national institution.

Balochistan Province is one of the most earthquake prone regions in Pakistan. It is vulnerable to potential seismic risk and has recently suffered huge economic and property losses due to the October 2008 earthquake. Considering the severity of the situation PMD established a number of new seismic monitoring stations which includes Chaman, Dalbandin, Pasni, Gwadar and Barkhan.

The existing seismic network has also been improved and operationalized by installation of new batteries and replacing faulty sensors. The seismic visualization systems have been installed at Geophysical Center as well as at Regional Seismic Monitoring Center Quetta that are contributing in image building of PMD to visitors from allied institutions, universities, NGOs and media.

There are 18 meteorological observatories under the control of RMC Quetta. The most vulnerable observatories had been rehabilitated and developed meteorological enclosures of WMO standard with necessary fencing and added new instruments to improve the quality of data acquisition. Investment was made to maintain the faulty instruments and made operational after years of dormancy.

Improvements have been brought in the general outlook of the RMC's website; the real-time weather map has been included so that the viewer can access the current weather parameters.

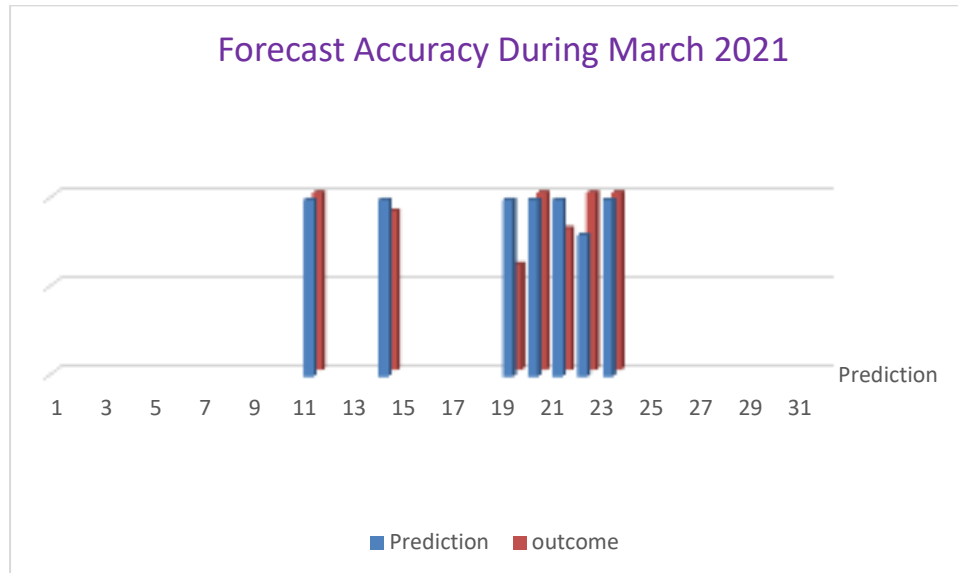
Regional Forecasting and Research Center is actively contributing to regional forecast needs of various stakeholders including Armed forces, NHA, PDMA, orchard growers and general public & media at large.

## Improvement in Weather Forecast

The Forecasting Office of the RMC, Balochistan is well coordinated with the PDMA, media and other concerned agencies. Weather forecast / reports are disseminated to all concerned offices and general public using social media apps and RMC's website.

During this quarter the westerly winds are highly active, the accuracy of the forecast issued by the Forecasting Officers is approximately 90% - 95%. Complemented by the feedback of PDMA and other public agencies.

Weather warnings and advisories are issued accordingly.



## Real-time Weather Parameters

Weather parameters, such as precipitation, temperature, humidity can now be viewed in real-time, thanks to the efforts of Mr. Naveed Metlo (Computer Programmer, Met HQ Islamabad) and Azhar Ali, Assistant Programmer (RMC, Quetta)

PAKISTAN METEOROLOGICAL DEPARTMENT  
REGIONAL METEOROLOGICAL CENTER  
QUETTA, BALOCHISTAN

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Quetta: 22.0°C, Gwadar: 21.5°C, Turbat: 23.0°C, Kohat: 8.0°C, Mandera: 17.5°C, Loralai: 21.0°C, Nokkani: 21.0°C, Peshawar: 17.0°C, Dera: 18.0°C, Quetta (Sheikh Vardak): 11.5°C, Quetta (Gharang): 18.0°C, Bostan: 14.0°C, Awaran: 21.0°C, Killa: 22.0°C, Khuzdar: 20.0°C, Loralai: 17.0°C, Nokkani: 24.0°C, Peshawar: 17.0°C, Porat: 14.0°C, Quetta (Sheikh Vardak): 21.0°C, Turbat: 23.0°C

Sea of Aral/Indian Ocean: Max: 24 Hours (mm) Baluchistan: 2.5, Marine Bay: London: 10, Dubai: 0.5 and Quetta (Sheikh Vardak): 0.5

QUETTA	ZHUS	ZHUK	MIRAN MACH	KOLAT	PESHAWAR	MIRAN MACH
22.0°C	11.0°C	11.0°C	25.0°C	12.0°C	9.0°C	7.8°C

**Weather**  
District Weather  
Financial Weather  
Marine Weather  
Satellite Images  
Radar Images

**Data / Charts**  
Met Data  
Weather Charts  
Daily Rainfall Data  
Daily Temperature Data  
Ocean Data  
Climate Information

**Numerical Weather Products**

**Regional Seismic Centre**  
Seismic Bulletin  
Latest Earthquake Events  
Intensity Map  
Monthly Seismic Bulletin

**Regional Drought Monitoring**  
Drought Monitoring Network  
Monthly Drought Bulletin  
Drought Mitigation Analysis  
Drought Risk Index

**Agrometeorology**  
Agro-meteorology Bulletin

**THE CURRENT WEATHER OF BALOCHISTAN**  
Wednesday, April 21, 2015 9:00:00 AM

Link: <https://rmbalochistan.pmd.gov.pk>

## Utilization of Budget 2020-2021

The available budget is being utilized quarterly as directed by the AGPR Office. At present three quarters budget

July2020 - Sep 2020

Oct 2020 – Dec 2020 &

Jan 2021 – March 2021 has been consumed under different heads with the supervision of the competent authority.

The utility bills/contingency bills received from several observatories across Balochistan have been processed according to the availability of budget for the financial year 2021.

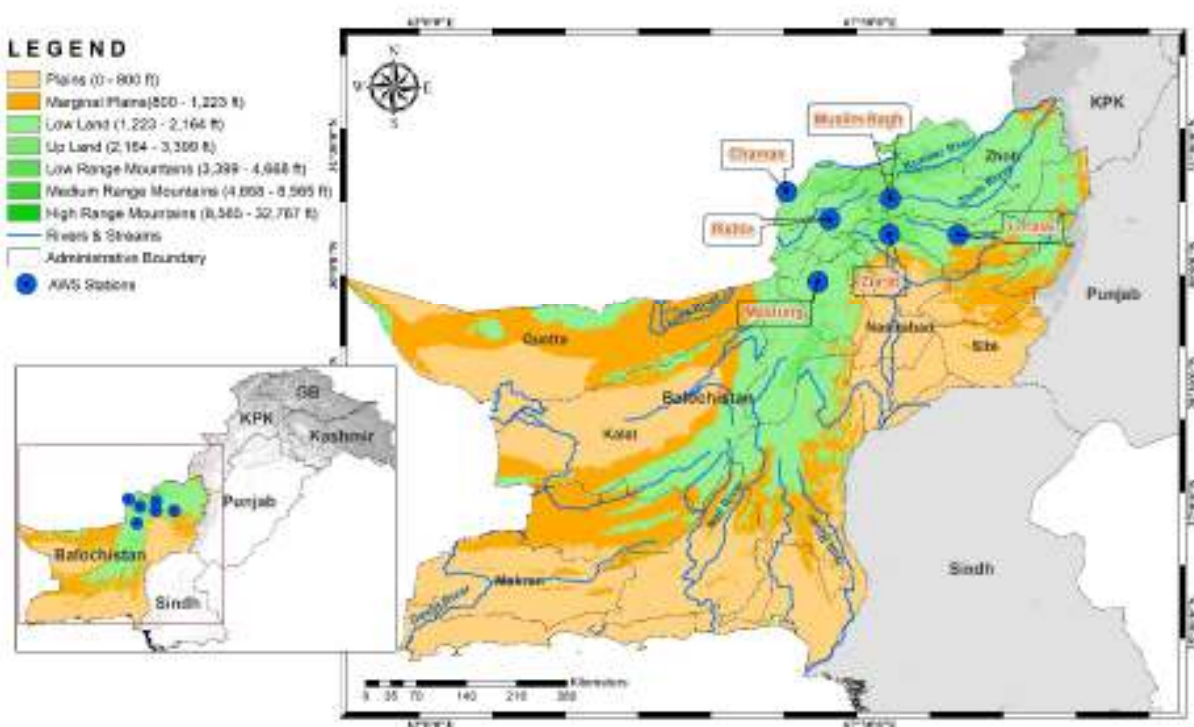
All request for advances i.e., HBA, Car Advance etc. have been updated processed at AGPR. Also received medical cases of employees have been processed up to date.

The efforts done by Mr. Irfan Hayat (Met. Assistant), Rehan Qayyum (Cashier) and Mumtaz Karim (Assistant) are appreciated & worth mentioning.

## Extension of the Automatic Weather Stations Network

Research & Development Department of PMD has developed First Ever Automatic Data Acquisition System and Integrated Database Management System "FAWS" to provide real-time ground-based rainfall and basic vital meteorological parameters serving as a source of input for IFAS Run-off Model and Research purpose.

### **FAWS NETWORK, BALOCHISTAN PHYSIOGRAPHIC MAP**





A few visuals showing the AWS stations installed at various stations;



**Chaman**



**Dalbandin**



**Kharan**



**Loralai**



**Mastung**



**Muslim Bagh**



**Pishin**



**Ziarat**

## Installation of New Seismic Stations

A number of new seismic stations has been established in Balochistan.

The RMC has installed the following Seismic stations TVG-33S integrated short-period Seismograph.

Barkhan		
Chaman		
Dalbandin		

Gwadar		
Pasni		

## Installation of Vaisala Humidity Sensor

The RMC has installed the Vaisala Humidity Sensor at Sheikhmanda Quetta.



## Improved Working Environment At Meteorological Observatories

At present 15 meteorological, 3 agromet and 6 seismic stations are working under Regional Meteorological Center (RMC) Quetta. Most of the observatories were not repaired since long time due to which the status of office buildings, boundary walls and meteorological enclosures are in very shamble condition. Officer In charge (Observatories) Mr. Muhammad Aslam (A.M) has been assigned the duties to carry out necessary planning for maintaining the observatories and develop new meteorological enclosures as per requirement. Accordingly, the requisite work was carried on following stations during July-Dec 2018 period keeping in view the budget provisions.

S. No	Station Name	Brief Description of Work
1.	AerometPanjgur	Repair/ renovation of office, establishment of new meteorological enclosure
2.	AerometTurbat	Repair/ renovation of office, establishment of new meteorological enclosure
3.	PBO Barkhan	Repair/ renovation of office, establishment of new meteorological enclosure
4.	PBO Pasni	Repair/ renovation of office Building, provision of office furniture
5.	Seismic Centre GC Quetta (Display Centre)	False Ceiling of Hall along with fixing Marbles on the floor for Display of Instruments
6.	SRRC Sheikhmanda Quetta	Repair/ renovation of office Building, provision of office furniture
7.	Aeromet Gwadar	Repair/ renovation of office Building has been carried out.

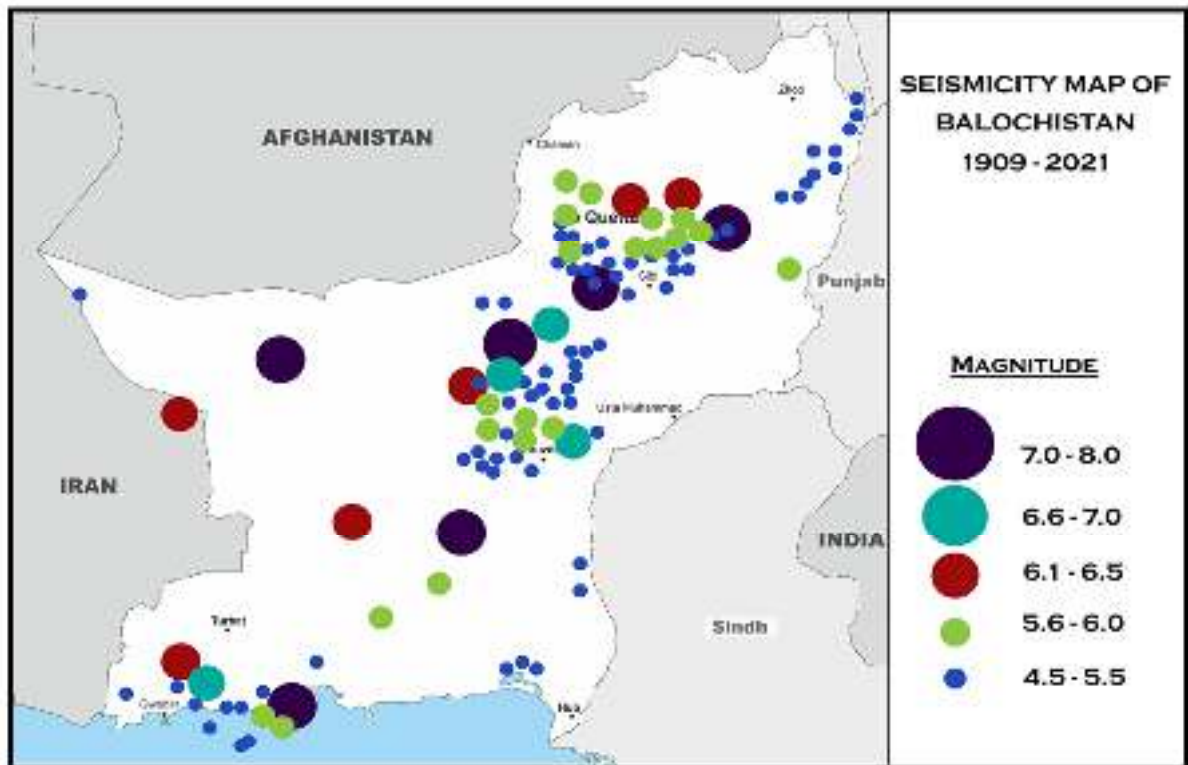
## Visual Clips of the required work at Observatories

The required work will be carried out in the next financial year 2021-2022

<p><u>PBO Nokundi</u></p>	 <p><u>Boundary Wall</u></p>	 <p><u>Residential Quarter</u></p>
<p><u>PBO Pasni</u></p>	 <p><u>Barbed wire status</u></p>	 <p><u>Damages to Office building due to earthquake</u></p>
<p><u>PBO Khuzdar</u></p>	 <p><u>Boundary wall need reconstruction</u></p>	
<p><u>M.O Sibbi</u></p>	 <p><u>Wall is just 2 ft . Wild trees are protective</u></p>	

## Seismicity Map of Balochistan (1909-2021)

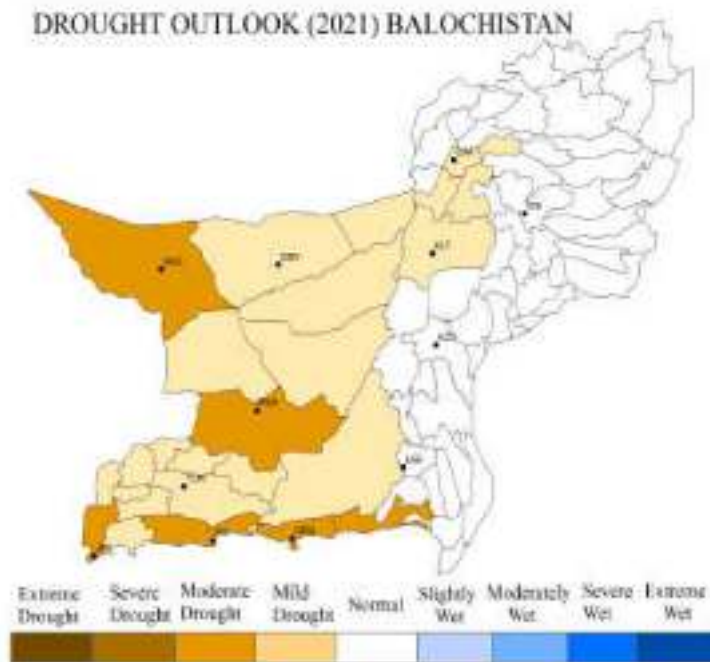
The RMC Quetta has established a seismicity map of Balochistan for the better understanding of the ongoing seismic activities in Balochistan.



## Drought Outlook for March 2021

Mainly dry weather prevails during the month of March 2021. No significant rain was recorded in the province except a few places like Barkhan, Zhob, Quetta and Khuzdar.

The figure below shows the drought outlook of Balochistan for 2021.



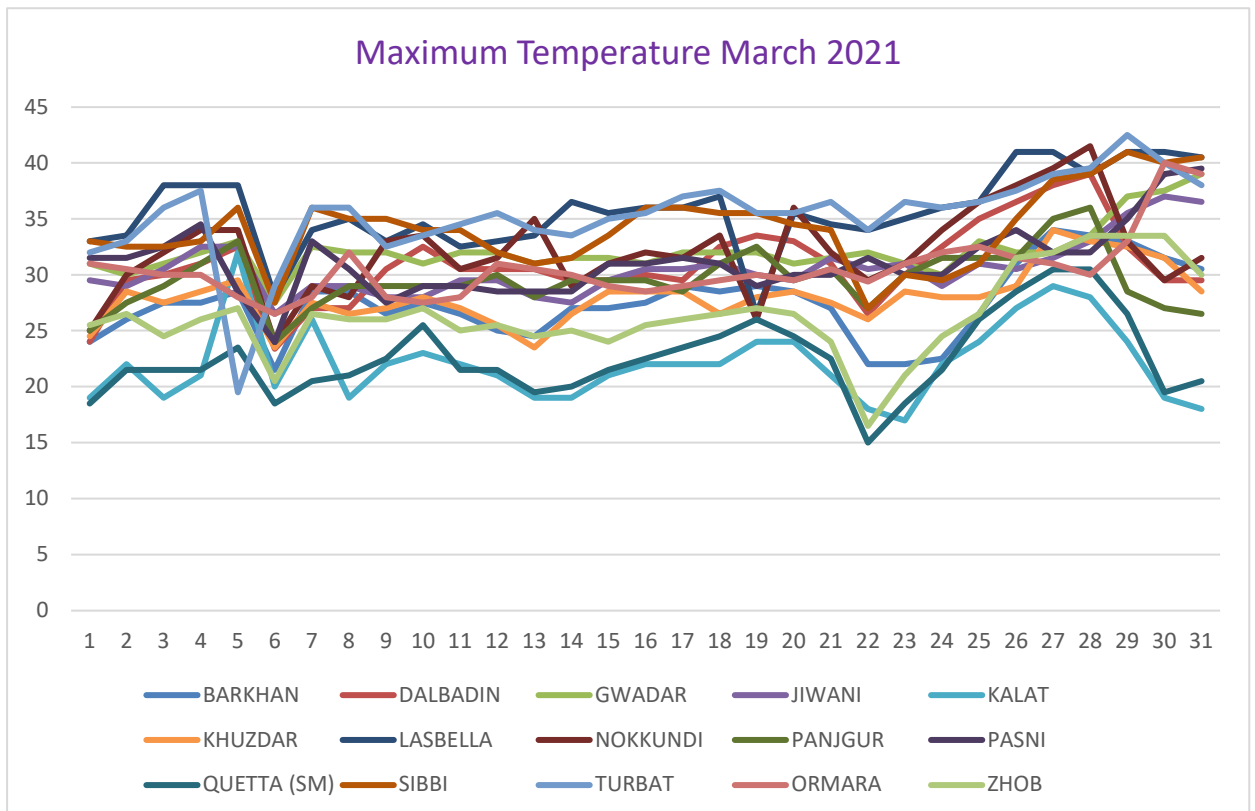
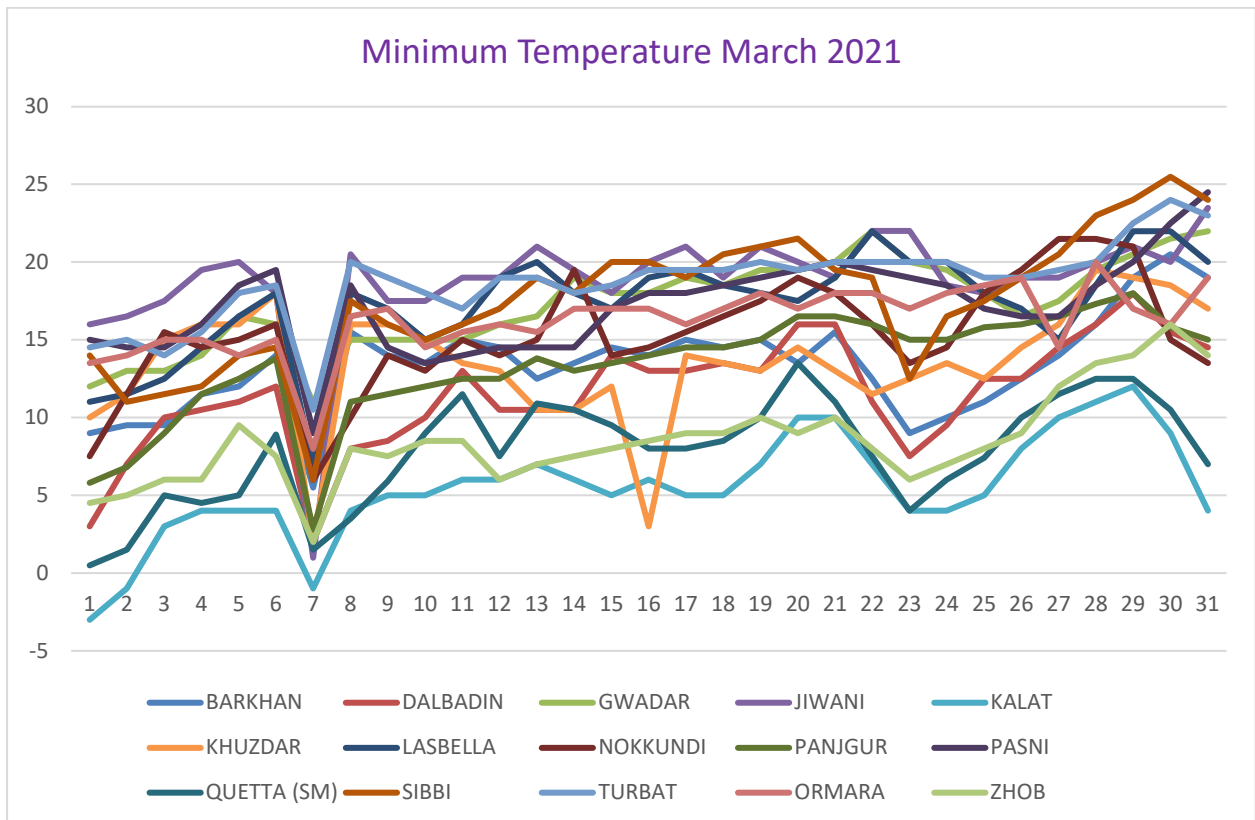


## Meetings, Workshops and Seminars

Following are the list of meetings, workshops and seminars conducted/attended by RMC Officers;

	Subject	Attended by	venue
1.	PMD Director's Meeting for 25 years Planning	Mr. Mukhtar Ahmed Magsi	PMD HQs Islamabad
2.	Provincial Stakeholder's Consultation Workshop for Development of School Safety Guideline for Tsunami, Earthquake and Coastal Hazards Preparedness	Mr. Mukhtar Ahmed Magsi	PDMA, Quetta
3.	Meeting with Regional Manager Islamic Relief, regarding Automatic Weather Stations	Mr. Najeeb Ahmed Amir	Islamic Relief, Quetta
4.	Overview the current Drought situation in Balochistan	Mr. Najeeb Ahmed Amir	PDMA, Quetta

## Weather Summary March 2021



## Precipitation March 2021

