

3. EXISTING WARNING POST

There are five existing warning posts around this area, as described below.

3.1 Main Fire brigade warning post

Name of person in charge:

Aziz Ahmad (Fire Officer), Ghulam Muhammad Naz (Assistant Fire Officer)



Main building of fire brigade

Information:

According to Mr. Ghulam Muhammad Naz, the Assistant Fire Officer, these fire warning posts are mainly for the purpose of fire and war, but they are occasionally used for flood warning as well.

When water level reaches sixteen feet at the Gawalmandi and Ratta Amral bridges, the head office is informed through Motorola wireless from the site of water level gauge. Then warning posts sound the siren [VHF 139.225 Mhz and 12 HP, equivalent to 8952 Watts] installed at the four-storey building to inform the people about the immediate danger. The range of the wireless set is about 9 kilometers. This facility is available only for TMA officials.



Transceiver



Transmission equipment for the transceiver



The siren installed on the roof of TMA



Power supply equipment



Power supply equipment



The switch of the siren

The main fire brigade office informs the situation to the civil defense office through telephone. At the same time, the fire brigade headquarters dispatches its siren-equipped vehicles to various parts of the city especially the low-lying areas. The coverage area of the main fire brigade station is approximately from Murre Road to Gawal Mandi Bridge. In 2002, no siren was sounded because there was no danger of flood.



The fire engine to sound a siren

Presently, there is one water level gauge at Ratta Amral Bridge. The water level gauge at Gawal Mandi Bridge has already been demolished due to removal of Gawal Mandi Bridge. For the coming monsoon the fire brigade proposes to install a temporary water level gauge just behind the fire brigade headquarters, but in this connection, the brigade is supposed to take permission from the competent authorities of TMA. The proposed site will be visible after the demolition of houses on the bank of the Lai, which will be done in the coming month of June. The fire brigade personnel use searchlights to monitor the water level gauge during nighttime.



Proposed site for the temporary water level gauge

Space for the installation of necessary equipment can be provided in form of existing room and also space is available to construct a new room. Mr. Naz proposed to construct the new room in front of the probable water level gauge, and gave the suggestion that new warning posts should be provided in places where someone is available round the clock.



Available rooms



TMA's new building next to the Fire brigade

3.2 Ratta Amral warning post

Name of person in charge: Unknown

Information:

This warning post is situated in the Office of Union Council No. 1 at Ratta Amral. Ratta Amral staff is present only during their duty hours from 9:00 AM to 2:00 PM. At night, volunteers control the station in case of emergency. Communication between the fire brigade headquarters and Ratta Amral Station is performed through telephone. The siren is of the same type as that of fire brigade headquarters.



The building where a siren is installed



Power supply equipment and switch of the siren

According to Mr. Badshah Mir Khan Afridi, the “Nazim” of this union council, the coverage area of this union council is one of the major low-lying areas. The area starts from the union council office up to Bhussa Godam (local name of the place) nearby Ratta Amral Bridge. He also pointed out that people do not believe that there is an emergency when the sirens are sounded and consider this only as a routine matter. Therefore, he suggested that sirens installed in the new flood forecasting and warning system should be somewhat different from the routine sirens so that when they are sounded, people will take the sound seriously and respond quickly. He also suggested that mosques may be used for the warning system since people are there most of the time.

3.3 Gawalmandi warning post

Name of person in charge: Unknown



Gawalmandi fire office

Information:

This fire warning post is situated in Gawalmandi. It is under the cantonment board authorities. The overhead water reservoir is in the vicinity of the station. Civil defence personnel inform the authorities about emergency situations. In the absence of electricity, it is impossible to operate the warning post.



The siren installed on the roof



The expansion photograph of the siren Power supply equipment and switch of the siren

3.4 Pirwadhi warning post

Name of person in charge: Unknown

Information:

No lai nullah is in the vicinity of this post. It is mainly used to inform the people of Ziaulhaq Colony, because this area is affected due to back water effect. When the water level reaches 21 feet, the fire brigade headquarters inform the warning post to start the sounding of sirens. The staff in charge sounds the siren situated within the office to inform the brigade's own staff about the emergency situation.

The fire brigade staff performs its duty round the clock in three shifts. Each shift contains eight hours. In each shift there are six personnel; namely, one person in charge, one driver and four firemen. The first shift starts from 8:00 AM up to 4:00 PM. The second shift is from 4:00 PM to 12:00 midnight and the third shift starts from 12:00 midnight to 8:00 AM the following day. During the night shift, the four firemen perform their duties in four shifts. Each fireman has to perform duty for two hours while the other three sleep.



Pirwadhi fire office



The siren installed on the roof



The switch of the siren

3.5 Waqar-un-Nisa College warning post

Name of person in charge: Unknown

Information:

The post is located inside the girl's college. It is mainly used during war, but it may be used occasionally for flood. Civil defense personnel operate it. However, during the night and holidays, the siren cannot be sounded.

Since admittance is restricted, detailed information is not available.



Waqar-un-Nisa College

4. PROPOSED RAIN GAUGE STATION SITE

4.1 Golra Area

There are three public facilities in this area. Hearing survey was carried out for two facilities except for the girls' school that has some difficulty to maintain the rain gauge instrument.

1) Modern Veterinary Health Care Center

Location:

Latitude 33 degrees 41.470 minutes

Longitude 72 degrees 58.220 minutes

Elevation 1880 feet

Name of person in charge: Umar Hayat



Main building

Information:

This hospital is under the jurisdiction of ICT (Islamabad Capital Territory). The land of the building is the property of CDA (Capital Development Authority). The office hours are from 8:00 AM to 3:00 PM.

There is one electricity transformer in the vicinity. Although the site is situated at a location where both electricity and telephone facilities can be provided, the station presently does not have electricity and telephone connections. The Bedarwali Kas passes nearby the hospital and in the 2001 flood this area got inundated up to one foot deep.

There is no spare room at the hospital for rain gauge installation. However, space is available for the construction of a new room where a rain gauge facility may be provided. The office is under the department of livestock. The Deputy Commissioner

is the overall head of the department. The three personnel at the office can look after the rain gauge during office hours.



Property of this facility



Power cable



Power cable



Transformer of this area

2) Federal Government Boys Secondary School Golra

Location:

Latitude 33 degrees 41.629 minutes

Longitude 72 degrees 58.446 minutes

Elevation 1831 feet

Name of person in charge:

Information:

According to the school staff, there is no vacant place for installation of the proposed rain gauge station. A playground exists within the school premises but according to the school authorities, since the children play there, the installation of rain gauge is not feasible. At the same time the PMD officials also does not recommend the installation of rain gauge in the school since children will certainly damage the instrument.



School entrance



Playground

Among the aforesaid two facilities, the Modern Veterinary Health Care Center is selected as the site of the proposed station due to some reasons, as follows:

1. The land and building is the property of CDA (Capital Development Authority).
2. There is enough space to install a new rain gauge and a mast for the telecommunication system.

However, because this site has the possibility to become flooded, detailed investigation will be necessary.

4.2 Bokra Area

There are three public facilities in this area: the Police line sector H-11, the Carriage factory (Railway spare parts manufacturing factory) near the railway crossing and the Construction Machinery Training Institute (situated in I-12 sector of Islamabad). A hearing survey was carried out at the institute that was established in 1986 with the assistance of the Government of Japan.

1) Construction Machinery Training Institute (CMTI)

Location:

Contact telephone Numbers: 051-9278101 (office)

Postal address: P.O Box No.145, Post Office Shaigan Sector I-12 Islamabad

Latitude 33 degrees 37.758 minutes

Longitude 73 degrees 00.694 minutes

Elevation 1721 feet

Name of person in charge: Muhammad Asif (Director)



CMTI main building

Information:

CMTI is functioning under the sponsorship of the Ministry of Communications, Government of Pakistan, and under the administrative control of Frontier Works Organization (FWO). The organization has two wings; namely, a) the Training Wing; and b) the Administrative Wing. The Director suggested that the JICA study team should write an application to the Ministry of Communications to ask their favor for the installation of rain gauge in CMTI. He also suggested that the team should mention in their application that CMTI personnel are part of the JICA study team to further facilitate the installation of rain gauge. The center previously known as Construction Machinery Training Centre was upgraded in 1992 and renamed as CMTI.

Among the aforesaid three facilities, CMTI is the most qualified for the proposed station due to various reasons, as follows:

1. CMTI has been established with the assistance of JICA.
2. It has a large area at the back of the main building for construction of a small building for rain gauge and mast installation.
3. The area is well protected from all sides and security guards are present round the clock.
4. Since the surrounding areas of CMTI are open, according to PMD officials, CMTI is well suited for the installation of rain gauge.
5. CMTI has no summer vacation and the institute is open for the whole year to conduct various courses.



Practice place



Practice place



Fence of the double structure

5. PROPOSED WATER LEVEL GAUGE STATION SITE

5.1 Kattarian Bridge

A new road and bridge will be built along the present road. Therefore, a decision to establish a new water level gauge at this site should be avoided at the present stage.



Kattarian Bridge



The lower reaches side



The lower reaches side



The upper reaches side