

Government of Telangana
Telangana Drinking Water Supply Project

Justification for locating the Project in Forest area:

As part of Mission Bhagiratha four (4) segments 1) Gajwel 2) Janagaon 3) Alair-Bhongir and 4) Medchal are being covered duly taking treated water from HMWS&SB at 1) Kondapak (200 MLD) 2) Pregnapur (160 MLD) and 3) Ghanpur (150 MLD) 4) Medchal (30MLD). In view of the present crisis from HMWS&SB and as instructed, it is planned independent system for Mission Bhagiratha for four (4) HMWS Segments by drawing raw water (9.06TMC) from Mallanna Sagar, treat the same in the nearby proposed WTP(540MLD) and pipeline works for the ultimate water demand of the HMWS&SB dependent (4) segments.

KALESHWARAM PROJECT: Construction of one barrage across river Godavari at Medigadda near Kaleshwaram, and two more barrages between Medigadda and SripadaYellampally Project at Annaram&Sundilla and to convey water from SripadaYellampally Project to the command area spread over in 7 districts of Telangana (now 13 districts after re-organization of districts in the state) through components such as canals, tunnels, lift systems, reservoirs, and distributor network for irrigating an ayacut of 18,25,700 acres against the original proposed ayacut of 16,40,000 acres. Further, it is proposed to stabilize the existing ayacut in other major projects viz., SRSP Stage-I, SRSP Stage-II, Flood Flow Canal, Singur&Nizamsagar projects to an extent of 18,82,970 acres. Besides irrigation, drinking water (30 TMC for twin cities &10 TMC for enroute villages) & water for industrial use (16 TMC) is also proposed.

The objective of Mission Bhagiratha is to supply potable drinking water in adequate quantity, conveniently and as economically as possible. While planning a water supply scheme, it is essential to take into consideration the priorities fixed by the State Government and the overall requirements of the entire region. Engineering parameters such as area and population to be served, the design period, the per capita rate of water supply, other water needs in the area, the nature and location of facilities to be provided, points of water supply intake, water treatment plants have to be established in order to formulate water supply schemes. In this project, the main objective is to prepare water supply plan for the design horizon years for the four **HMWSS segments** by considering **Sri Komuravelly Mallanna**

Mission Bhagiratha Department Telangana Drinking Water Supply Project

Objectives and Scope

Telangana drinking water supply project (Mission Bhagiratha) is the flagship programme of the state of Telangana. The State Government has embarked on a vision to provide safe, adequate, permanent and sustainable water supply to rural, urban and industrial areas by 2020. Apart from water for domestic use, the project is planned to meet the water needs of commercial entities, industrial units, Special Economic Zones, etc.

The project will be integrated with the existing and ongoing water supply schemes which are sustainable. Balance surface water requirements will be planned from the proposed Telangana Drinking Water Supply Project. The requirement of water for drinking, cooking, domestic need will be taken into account at 100 liters per capita per day (LPCD) for rural areas, 135 LPCD for municipalities/Nagar Panchayaths and 150 LPCD for municipal corporations.

Need of the Project

- As part of Mission Bhagiratha four (4) segments 1) Gajwel 2) Janagaon 3) Alair-Bhongir and 4) Medchal are being covered duly taking treated water from HMWS&SB at 1) Kondapak 2) Pregnapur and 3) Ghanpur 4) Medchal. In view of the present crisis from HMWS&SB and as instructed, it is planned independent system for Mission Bhagiratha for four (4) HMWS Segments by drawing raw water (9.46TMC) from Sri Komuravelly Mallanna Sagar, treat the same in the nearby proposed WTP (540MLD) and pipeline works for the ultimate water demand of the HMWS&SB dependent (4) segments, accordingly the Government has accorded administrative sanction vide G.O. Rt. No.32 dated 22.01.2020 of PR&RD, Govt. of Telangana for an amount of **Rs.674.00 Crores**.

Salient Features:

KALESHWARAM PROJECT: Construction of one barrage across river Godavari at Medigadda near Kaleshwaram, and two more barrages between Medigadda and Sripada Yellampally Project at Annaram & Sundilla and to convey water from SripadaYellampally Project to the command area spread over in 7 districts of Telangana (now 13 districts after re-organization of districts in the state) through components such as canals, tunnels, lift systems, reservoirs, and distributor network for irrigating an ayacut of 18,25,700 acres, besides irrigation, drinking water (30 TMC for twin cities & 10 TMC for enroute villages) & water for industrial use (16 TMC) is also proposed.

Existing HMWSS Projects :

1) **Jangaon Segment and Part Gajwel Segment:** The treated water is being drawn from the HMWSS sump at Kondapak to the constructed MB sump in the same premises to supply drinking water to the following areas.

Constituencies covered: 1) Gajwel Part 2) Siddipet 3) Jangaon 4) Ghanpur 5) Palakurthy

ULBs: Siddipet, Jangaon, Tirumalgiri, and Cheriya

Habitations: 903 , Population: 977118

2) **Gajwel Segment:** The treated water is being drawn from the HMWSS pumping main at Pregnapur, Gajwel to Komatibanda GLBR to supply drinking water to the following areas.

Constituencies covered: 1) Gajwel 2) Dubbaka

ULBs: Gajwel, Dubbaka and Toopran

Habitations: 425, Population: 624779

3) **Alair Bhongir Segment:** The treated water is being drawn from the gravity main 2.75ML HMWSS Reservoir at Ghanpur, Medchal to supply drinking water to the following areas.

Constituencies covered: 1) Alair 2) Bhongir

ULBs: Bhongir, Yadagirigutta, Alair

Habitations: 545, Population: 667553


4) **Medchal Segment:** The treated water is being drawn from the 2.75ML HMWSS Reservoir at Ghanpur, Medchal to supply drinking water to the following areas.

Constituencies covered: Medchal

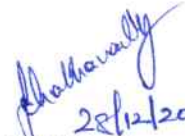

ULBs: Medchal, Shamirpet, and Ghatkesar

Habitations: 85, Population: 274464


Executive Engineer
MB-Grid, Div-Gajwel


Superintending Engineer
MB-Circle, Siddipet

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28/12/2020
Chief Engineer-III
MB, Hyderabad



Sagar Reservoir (50TMC) as Source in which 10TMC of water is being considered as dead storage.

Justification for location of the proposed project in forest Area:

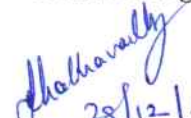
The Proposed "**Laying of Pipeline and Constriction of Other Structures for Drinking Water in Siddipet and Medchal Districts (Four HMWS Segments)**" have no other alternative routes to cover all the tapings and the proposed pipelines and structures in the forest area are essential to cover all the tapings in HMWSS Segments of Siddipet and Medchal Segments as per the Hydraulic Designs and Topography of the area the proposed locations are very much essential and there are no other alternative alignments

Cost of the Project: Rs 674.00 Crores


Executive Engineer
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