

**Government of Andhra Pradesh
Water Resources Department**

From:
Sri K.Narasimha Murthy, B.Tech.,
Superintending Engineer
PIPHW Circle, Dowlaiswaram-533125,
East Godavari District,
Andhra Pradesh State,
Email: seishw@gmail.com

✓ To,
The Principal,
Government Degree College,
Seethanagaram,
East Godavari District.

Lr.No. SE/ PIPHW /OT.2/ AEE.3/ M/2/ Vol.34/ 05-M, Dt:07.01.2023.

Sir,

Sub: WRD - PIPHW – Internship in Polavaram Irrigation Project with 16 members of the 3rd B.S.C (M.P.C) students from Government Degree College, Seethanagaram - Permission for 6 months – Clarification – Reg.

Ref:

1. Letter from the Principal, Government Degree College, Seethanagaram on Dt.02.01.2023.
2. Letter from the Principal, Government Degree College, Seethanagaram on Dt.05.01.2023

%%%

With reference to the above, where in The Principal , Government Degree College, Seethanagaram has requested for Internship at Polavaram Irrigation Project for 10 members (listed) of the 3rd B.S.C (M.P.C) students on the subject regarding Water analysis and Soil Analysis in Laboratories.

In this connection, it is to inform that during the construction of various work components of PIP Head Works as a quality assurance measures various tests are being conducted at laboratory and insitu as per the laid frequency and standard procedure of testing.

P.T.O.,

The Following are broad tests are conducted in our project premises as listed below:

A. TESTS AT LABORATORY:

SOIL:

Soil excavated is majorly dumped at various locations which suits the soil classification requirement as per approved drawings (i.e., SC, CL, CI, SM) is proposed/used for construction of the Project.

Soil to be used in the core portion is tested for the following parametres in the laboratory:

- a) Grain size analysis.
- b) Pipette analysis.
- c) Atterberg's limits
- d) Differential free swell index.
- e) Specific gravity.
- f) Maximum Dry Density / Optimum Moisture Content.

B: INSITU TESTS:

1: SOIL/CORE PORTION:

The laid layer of soil at site is tested for field dry density and the coefficient of permeability of the layed layer is ascertained through stand pipe method.

2: ROCKFILL/SHELL MATERIAL:

- Field dry density is ascertained by conducting ring test through water replacement method.
- Gradation of the excavated material from the ring.
- The coefficient of permeability of the layed layer is ascertained through perforated cylinder.

3: FILTERS:

- Material used for both horizontal and inclined filters are tested for gradation in each layer.

C: OTHER TESTS/TESTS ON SAND:

Sand used for the Vibro Compaction work and for filling of scour portion is also tested at Laboratory for its gradation and silt content at various stages.

In this connection, if the above tests are useful for your course curriculum and helpful for your students then please confirm to proceed for acceptance of internship of students in Polavaram Irrigation Project.

Yours faithfully,
Sd/- K. Narasimha Murthy, 06.01.2023
Superintending Engineer,
PIPHW Circle, Dowlaiswaram

//t.c.f//



Deputy Executive Engineer,
PIPHW Circle, Dowlaiswaram