



Directorate General Monitoring & Evaluation
Planning & Development Board
Government of the Punjab



No. DGM&E/MTR/AD (B-1)/2023/04/2157
 Dated: 6 February 2023

To,

1. **The Secretaries,**
 Government of the Punjab,
 - i. Planning & Development Board
 - ii. Finance Department
 - iii. Housing Urban Development & Public Health Engineering Department

Subject: - MONITORING REPORT OF THE PROJECT "COMPREHENSIVE SEWERAGE-DRAINAGE SCHEME TAUNSA SHARIF INCLUDING TUFF TILLING OF STREETS"

I am directed to refer to the subject cited above.

2. Kindly find enclosed herewith a copy of the Monitoring report of the project titled "Comprehensive Sewerage-Drainage Scheme Taunsa Sharif including Tuff tilling of Streets". This Project report also can be downloaded from the DG M&E Website, which is as follows:
<http://dgme.punjab.gov.pk/monitoring/>
3. The project will be discussed shortly in the forthcoming Monitoring Committee Meeting (MCM). Any comment/feedback can be submitted to the DGM&E.


Engr. Arif Ahsan
Assistant Director (Buildings)

A copy is forwarded for information to the:

1. The Member (SI), P&DB, Government of the Punjab
2. Superintendent Engineering (Taunsa Sharif), Public Health Engineering Department, Govt. of the Punjab.
3. Deputy Director (Development), Dera Ghazi Khan & Taunsa.
4. Executive Engineer/Deputy Director (P&D), Nominated Focal Person of Public Health Engineering Department (South Zone) Lahore vide Letter No. 405/ES(2), Date February 22, 2022.
5. Director Coordination, DGM&E, P&D Board, Government of the Punjab.
6. Director Project Management, DGM&E, P&D Board, Government of the Punjab.
7. PSO to Chairman, P&D Board, Government of the Punjab
8. PA to DG (M&E), P&D Board, Government of the Punjab.

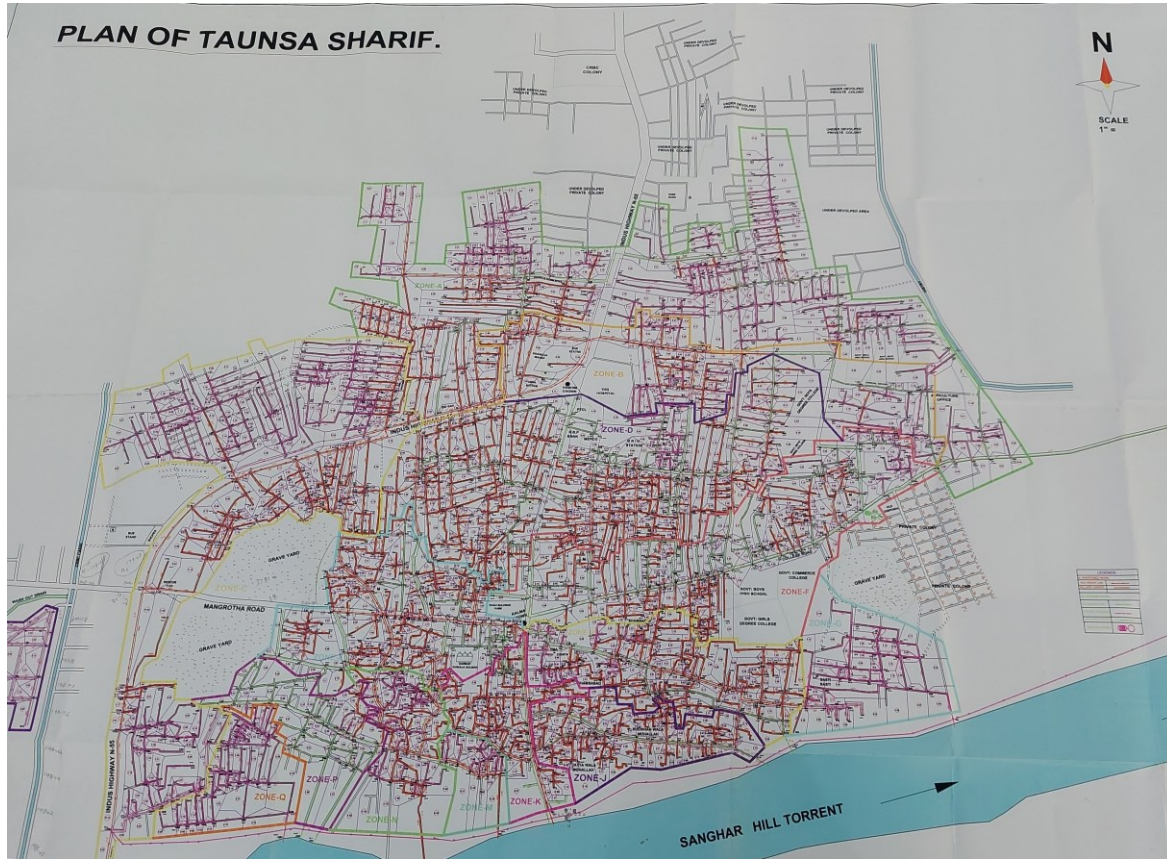


Directorate General Monitoring and Evaluation
Planning and Development Board, Government of the
Punjab



Yellow

**MONITORING REPORT ON THE PROJECT OF COMPREHENSIVE SEWERAGE-
DRAINAGE SCHEME TAUNSA SHARIF INCLUDING TUFF TILLING OF STREETS**



[Courtesy: PHED Taunsa Sharif]

Directorate General Monitoring & Evaluation
Planning and Development Board
Government of the Punjab

Written By
Engr. Arif Ahsan
(Assistant Director Buildings)

January 2022

4th Floor, 65- Trade Centre Block, Ayub Chowk, Johar Town, Lahore
042-99233177-91, info@dgmepunjab.gov.pk

| MONITORING RATING INDEX | | | | | |
|-------------------------------|---|--|--------------------|-----------------|----|
| Sr. No | Phase | Criteria | Maximum Point | Points Obtained | |
| P1.1 | Planning | Feasibility Study (with respect to threshold of cost of Project) | | | |
| | | i | Yes | 5 | 0 |
| ii | | No | 0 | | |
| P1.2 | | Stakeholders Involvement in preparation of PC-I | | | |
| | | i | Yes | 5 | 5 |
| P1.3 | | Baseline Data in PC-I | | | |
| | | i | Yes | 5 | 0 |
| P1.4 | | Scope Commensurate with Objectives | | | |
| | | i | Completely matched | 5 | 5 |
| | | ii | Partially matched | 3 | |
| iii | Do not Match | 0 | | | |
| P1.5 | Result Based Monitoring Framework | | | | |
| | i | Yes | 5 | 0 | |
| P1.6 | Project Justification/ Need's Assessment | | | | |
| | i | Provided | 5 | 5 | |
| | ii | | | 0 | |
| | Not Provided | | | | |
| Points Obtained of Planning = | | | | 15 | |
| A | Weightage of P1 Indicators | ((Points Obtained of Planning/30 x 100) *0.2= | | 10 | |
| P2.1 | Execution | Formulation of Project Team and Organization (PMU, PIU, PSU etc.) | | | |
| | | i | Formulated | 5 | 0 |
| ii | | Not Formulated | 0 | | |
| P2.2 | | Revisions of PC-I | | | |
| | | i | No Revision | 10 | 10 |
| | | ii | One Revision | 7 | |
| | | iii | Two Revision | 5 | |
| iv | | Three or more Revision | 2 | | |
| P2.3 | | Availability of Documents w.r.t (Hiring, Procurement, Trainings, Tenders & Bidding etc.) | | | |
| | | i | Provided | 10 | 0 |
| | ii | Partially Provide | 5 | | |
| iii | Not Provided | 0 | | | |
| P2.4 | Internal Monitoring conducted by Department | | | | |
| | i | Yes | 5 | 0 | |
| ii | | | 0 | | |
| No | | | | | |

| MONITORING RATING INDEX | | | | | |
|--|----------------------------|---|-----------------------|-----------------|---|
| Sr. No | Phase | Criteria | Maximum Point | Points Obtained | |
| Points Obtained of Execution= | | | | 10 | |
| B | Weightage of P2 Indicators | ((Points Obtained of Execution/30) x 100) *0.3= | | 10 | |
| P3.1 | Performance | % Difference of Planned & Physical Progress | | | |
| | | i | lesser than 10% | 10 | |
| | | ii | in between 10% to 20% | 5 | |
| iii | | Greater than 20% | 2 | 2 | |
| P3.2 | | Data Availability & Response of Project Authorities | | | |
| | | i | Provided | 10 | |
| | | ii | Partially Provide | 5 | 5 |
| P3.3 | | Availability of Quality Control Data | | | |
| | | i | Provided | 10 | |
| | ii | Partially Provide | 5 | 5 | |
| Points Obtained of Performance= | | | | 12 | |
| C | Weightage of P3 Indicators | ((Points Obtained of Performance/ 30) x 100) *0.5= | | 20 | |
| Planning 20%, Execution 30%, Performance 50% | | | | | |

| | |
|---------------|----|
| Total (A+B+C) | 40 |
|---------------|----|

| | | | |
|-------------------------|----------|-----------------------|--------|
| Overall Project Grading | Above 70 | Within Defined Limits | Green |
| | 35-70 | Need Consideration | Yellow |
| | Below 35 | Critical | Red |

1. Project Profile

Table 1 Project Summary

| | |
|--|--|
| Project Title | Comprehensive Sewerage-Drainage Scheme Taunsa Sharif including Tuff tilling of Streets |
| GS NO. | 1301 (2022-23) |
| Scheme No. | 01041400707 |
| Location | Taunsa, Dera Ghazi Khan |
| ADP Sector | Water Supply & Sanitation |
| P&DB Sector | Social Infrastructure Wing |
| Sub-Sector | Water Supply & Sanitation |
| Sponsoring Ministry/ Agency | Housing Urban Development & Public Health Engineering Department |
| Execution Agency | Housing Urban Development & Public Health Engineering Department |
| Operation & Maintenance | Housing Urban Development & Public Health Engineering Department |
| PC-I Cost | 485.406 m [Original Cost] 531.483 m [Amended Cost] |
| Administrative Approval | 24 Apr 2015 [1 st Administrative Approval] 01 Dec 2022 [Amended Administrative Approval] |
| Actual Cost / Expenditure | 317.496 m / 223.271 m |
| Planned Start Date | 24 Apr 2015 |
| Planned End Date | 30-06-2023 |
| Actual Start Date | 24 Apr 2015 |
| Gestation Period | 8 Year, 03 Months |
| Beneficiaries | General Public |
| Approving Authority | PDWP |
| % Financial Utilization | 85% |

| | |
|-----------------------------|---|
| Contractor | i. M/S Mahar Muhammad Yousaf Gill ii. M/S Impreza Pvt |
| Resident Supervision | ECS Consultant |
| Design Engineer | P&D office, HUD PHED |
| Focal Person | Mr. Muhammad Arshad Mehar, Deputy Director (P&D), Public Health Engineering Department (South Zone) Lahore. |

2. Project Objective

The following were the major objective of the project (derived from PC-I document):

Table 2 Project Objective

| No. | Project Objective |
|-----|---|
| 1. | Improvement in living and hygienic condition in the area. |
| 2. | Improvement in overall environmental condition of the locality |
| 3. | Reduce spread of diarrhea or other intestinal worm infections by improving sanitation and hygiene |

3. Major Deliverables & Procurement of Equipment/Items

The table below presents the results of physical verification of the equipment purchased as part of the project.

Table 3 Verification of Major Deliverables

| Sr. No. | Description | PC-I Scope | | | Physical Progress (%) | Actual Financial Progress |
|---------|----------------------|------------|-----------|------------|---------------------------------|---------------------------|
| | | Unit | Quantity | Amount (m) | | |
| A | CAPITAL COST | | | | | |
| | RCC Sewer | | | | | |
| 1. | 9" i/d | Rft | 200217 | 201.94 | In Progress | |
| 2. | 12" i/d | Rft | 15492 | | In Progress | |
| 3. | 15" i/d | Rft | 9402 | | In Progress | |
| 4. | 18" i/d | Rft | 6731 | | In Progress | |
| 5. | 24" i/d | Rft | 6890 | | Completed | |
| 6. | 27" i/d | Rft | 1000 | | Completed | |
| 7. | Thrust Boring | Job | 01 | | Completed | |
| 8. | Sullage Carrier | Job | 01 | 4.755 | No Sullage Carrier was observed | |
| 9. | Tuff Tile | Sft | 4,452,360 | 264.66 | --- | |
| 10. | Add 2% Contingencies | Job | 01 | 9.410 | In Progress | |

| Sr. No. | Description | PC-I Scope | | | Physical Progress (%) | Actual Financial Progress |
|---------|------------------------------|------------|----------|------------|---|---------------------------|
| | | Unit | Quantity | Amount (m) | | |
| A | CAPITAL COST | | | | | |
| 11. | Add 2% Resident Supervision | Job | 01 | 9.410 | Consultant was not present at Site | |
| 12. | Add 1% Horticulture Charges | Job | 01 | 4.705 | Payment to Horticulture Department was not made | |
| 13. | Add 0.25% Awareness Campaign | Job | 01 | 1.176 | No Such Campaign was executed by PHED. | |
| 14. | Add EIA/IEE Charges | Job | 01 | 0.455 | EIA Report was not taken | |
| | TOTAL | | | 495.6667 | | |

Total Project Cost = 495.6667 (m)

Overall Physical Progress = 71%

4. Project Major Stakeholders

Following is the Stakeholders of the Project:

Table 4 List of Stakeholders

| Sr. No. | Name | Designation | Department | Contact Nos. |
|---------|-------------------|-------------------------|---|--------------|
| 01 | Mr. M Sohaib | Superintendent Engineer | Public Health Department, DG Khan | ---- |
| 02 | Mr. Latif Ahmad | Assistant Engineer | Public Health Department, Taunsa Sharif | ---- |
| 03 | Mr. Mazhar Farooq | Sub Engineer | Public Health Department, Taunsa Sharif | 0333-6185684 |

5. Analysis of Project Expenditures

Detail of year-wise releases and expenditures of funds is given in the table below.

Table 5 Year-wise Financial Details

| Fiscal Year | ADP Allocation (millions) | Releases (millions) | Utilization (millions) | Financial Efficiency (%age) | |
|-------------|---------------------------|---------------------|------------------------|-----------------------------|-------------------------|
| | | | | Release vs Allocation | Utilization vs Releases |
| 2014-15 | 20 | 20 | 20 | 100 | 100 |
| 2015-16 | 54.999 | 54.999 | 54.999 | 100 | 100 |
| 2016-17 | 105.456 | 105.456 | 105.456 | 100 | 100 |

| | | | | | |
|--------------|--------|--------|---------------|-----|-----|
| 2017-18 | 33.64 | 33.64 | 33.64 | 100 | 100 |
| 2018-19 | 64.886 | 64.886 | 64.886 | 100 | 100 |
| 2019-20 | 97.137 | 97.137 | 97.137 | 100 | 100 |
| 2020-21 | 50.45 | 50.45 | 50.45 | 100 | 100 |
| 2021-22 | 25.149 | 25.149 | 25.149 | 100 | 100 |
| Total | | | 452.04 | - | - |

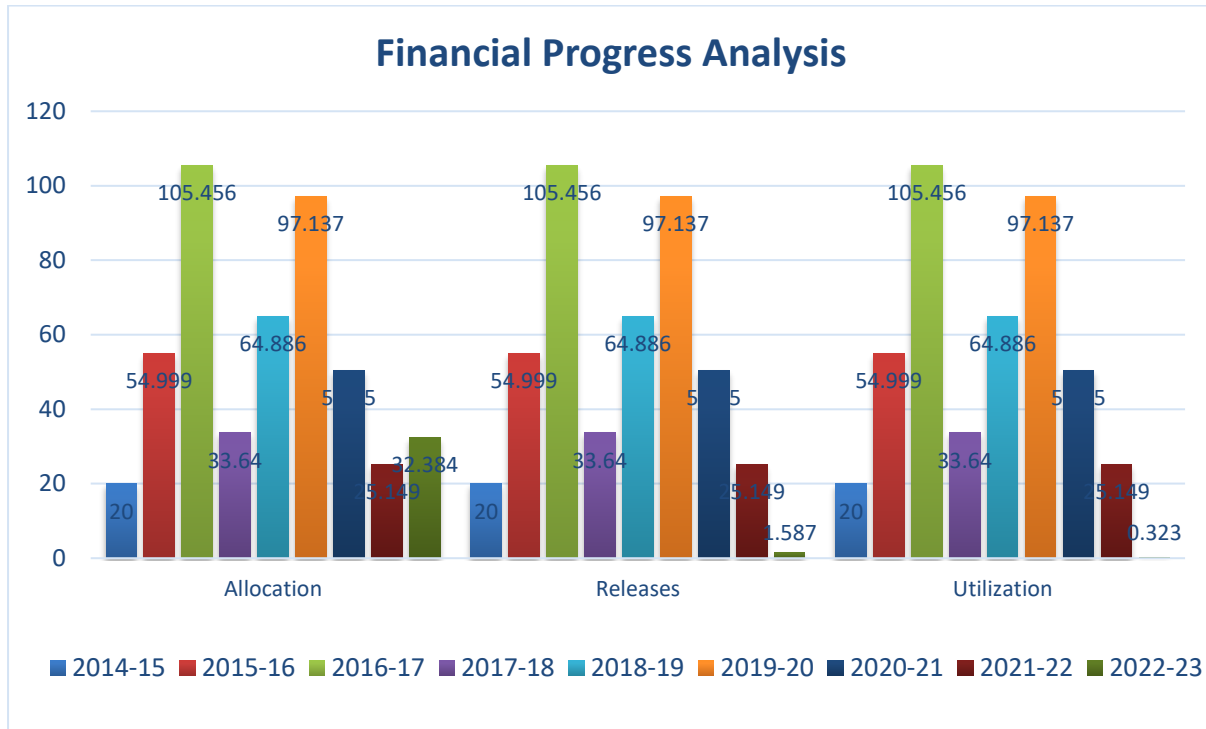


Figure 1 Year Wise Financial Details

6. Project Progress Analysis

The Progress of the project with respect to its plan is given below.

- Planned Physical Progress: 97 % as of [August 2022]
- Actual Physical Progress: 71 %
- Actual Financial Progress: 85 % (Utilization vs PC-I Cost)

Table 6 Project Progress Analysis

| % Planned Progress | % Physical Progress | % Financial Progress | % Difference in Progress | |
|--------------------|---------------------|----------------------|--------------------------|-----------------------|
| | | | Physical Vs Planned | Physical Vs Financial |
| 97% | 71% | 85.00% | -26% | 4% |

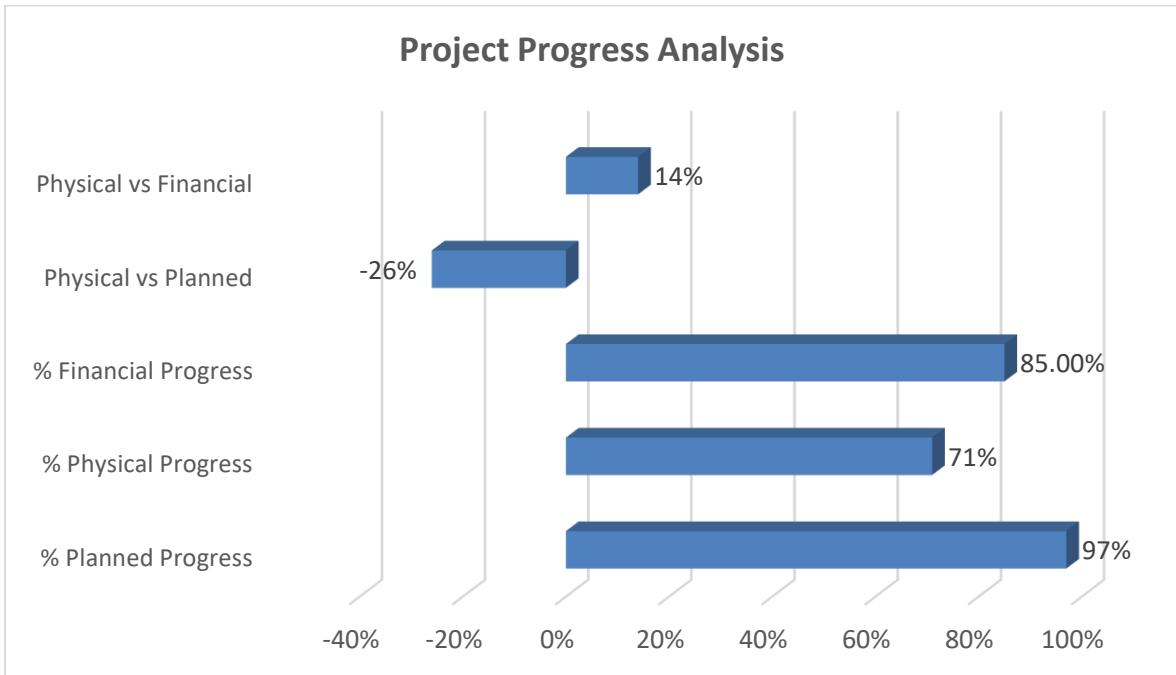


Figure 2 Project Progress Analysis

Observations:

Monitoring of the project revealed some facts and figures about the project as per physical inspection and analysis. The observations regarding overall project activities are given in the ensuing paragraphs:

Schedule & Cost:

1. This project went for revision in approved cost to 531.483 m from the original cost of 485.406m. The administrative approval was awarded on 12th Dec 2015 with gestation period of two years initially, which was extended to 30 June 2023.
2. The project could achieve its physical and financial progress as follows:
 - Planned Physical Progress: 97 % as of [January 2022]
 - Actual Physical Progress: 71 %
 - Actual Financial Progress: 85 % (Utilization vs PC-I Cost)

It is clear the physical progress of the project was less as per planned progress. Executing department should manage to complete the project in all aspects within approved gestation period.

3. It was observed that the schedule plan of the project activities was not available. Executing department should have to prepare the schedule plan of activities to manage the project activities and tasks within approved gestation for achieving the set target.

Scope of Work:

4. Physical activities were awarded to the two contractors given in **[Table 01]** work agreement with the M/S Mahar Muhammad Yousaf Gill was rescinded on 12-10-2018 and remaining work was awarded to M/S Impreza Pvt. During the site visit, it was observed manhole covers were not placed. The manholes substitute as connecting point of the Sewer if it is not covered with lids then it acts as the trash cans or as overflowing puddles for rainwater eventually choking the sewage system and becoming breeding ground for rodents and infectious mosquitoes. **[Figure 02-03]** Also in various streets the manhole cover steel frames were missing and damaged **[Figure 04]**.
5. It has been observed that tough tiles in most of the streets were damaged and soil under the tiles was settled which due to poor executing the work because of non-compaction of the soil at the time of paving. **[Figure 05-06]** Also, the cross slope in streets was not observed. Executing department should repair such issues.

6. It was noticed that the Gully Grating Chamber covers were missing in various streets and found choked with litter **[Figure 07]**. Steel or Concrete Grating should be to be placed on the camber to avoid choking because of litter.
7. It was noticed in the detailed estimate the PHED was have to install the C.I Ventilation Shafts to sewer with foundation to expel out the H₂S gas in atmosphere reducing the H₂S contact with concrete to eliminate the Crown failure of sewer pipes. But contrary to this not such ventilation shifts were provided on site. Public Health Engineering department should justify the cause.
8. It was observed that no lateral support/backfilling was provided on the side of the manhole. Which will lead to tilting off and failure if choked. **[Figure 08]**.
9. In the PC-1, Public health department have to construct the Sullage Carrier of specified length 2400ft. whereas the PHED constructed only 56 ft sullage carrier which was washed out with drain **[Figure 09-10]**
10. The team of supervising consultants, i-e, the Resident Engineer and Assistant resident engineer, were not available at the site. And No progress report was provided to the DG M&E Team.

Health, Safety & Environment:

11. The workers were not provided with Personal Protecting Equipment (PPEs).

7. Recommendations

To optimally realize the project benefits, the following actions/recommendations on the part of sponsoring and executing agencies should be given due consideration. The rationale for the recommendations has been clearly explained and linked with the information collected in the Monitoring process. Recommendations about the project are given in ensuring paragraphs:

1. Reference to Observations in Section "Schedule & Cost"
 - i. Executing Department should ensure the physical Progress should be monitored and expedited to ensure timely completion.
 - ii. A schedule plan of activities should be prepared to monitor the workflow of the activities.
2. Reference to Observations in Section " Scope of Work"
 - i. Executing Department should ensure the presence of the consultant staff at the site to efficiently monitor the site activities as per the design specifications.
 - ii. The manholes cover should be provided to avoid choking of the Sewer and manholes. Also the steel frame should be installed and damaged manhole should be repaired.
 - iii. Damaged and settled tough tiles in the streets should be replaced.
 - iv. It should be ensured to provide the Gully Grating Chamber cover/Steel Grating to be provided.
 - v. Executing department should build/Install the Ventilation Shafts as the cost of these items was added in the estimate.
3. Reference to Observations in Section " Risk and Constraints"
 - i. The executing Department should be vigilant enough for the timely completion of all the project activities by improving the project's pace.
4. Reference to Observations in Section " Health, Safety & Environment"
 - i. Personal safety equipment should be provided to the works.

8. Photo Gallery



Figure 02 [Missing Manhole Cover at Magrotha Chowk]



Figure 03 [Missing Manhole along with the Canal Road]

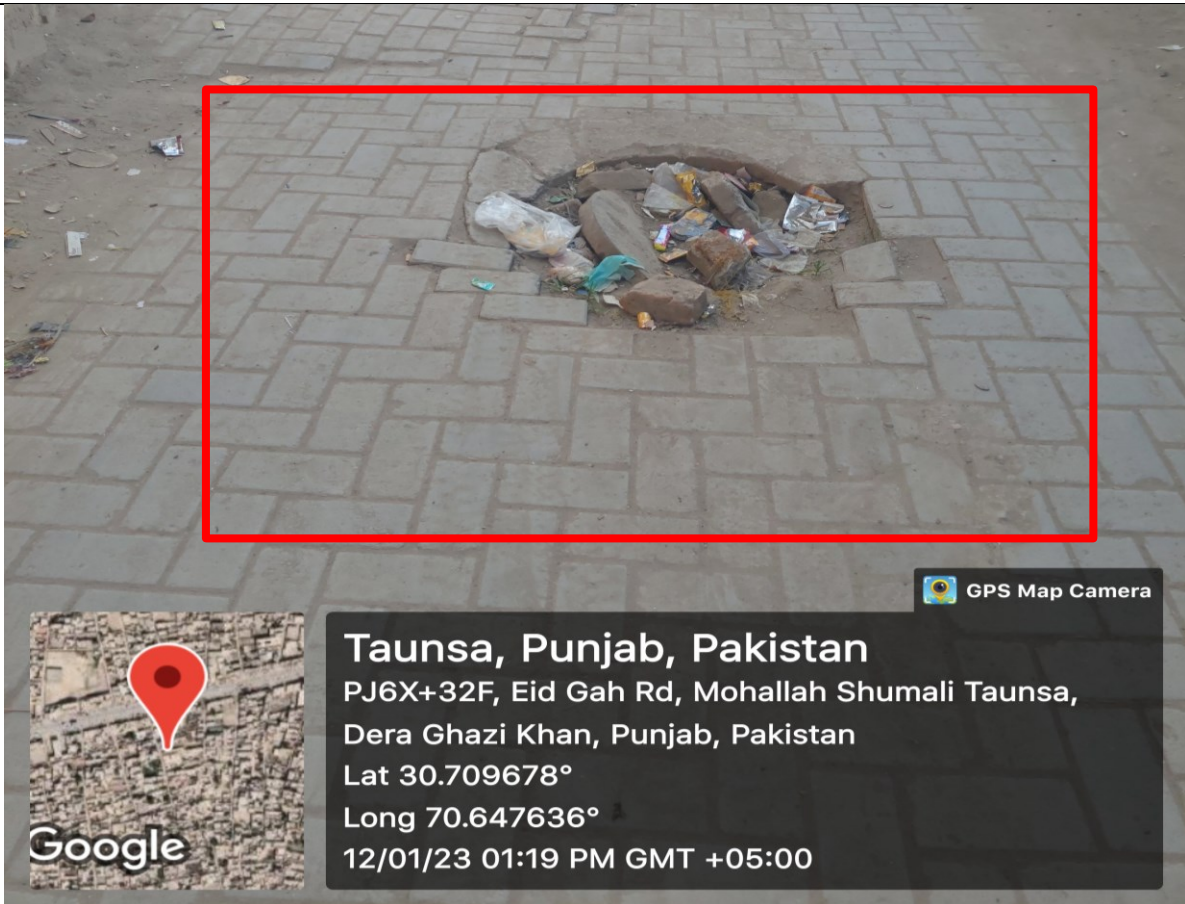


Figure 4 [Manhole Cover Damaged and Missing Steel Cover Frame]



Figure 5 [Damaged and Settled Tuff Tiles in Streets]

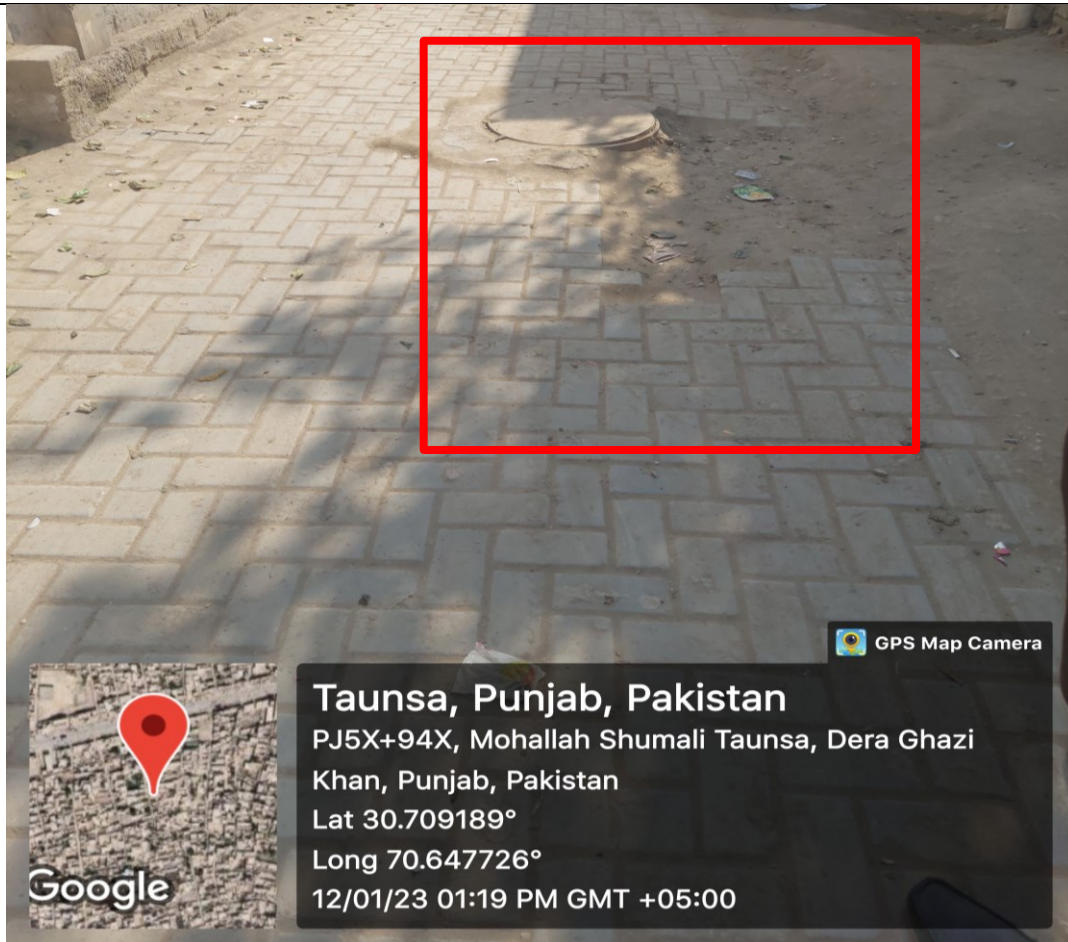


Figure 6 [Tuff Tile Missing in Streets]



Figure 7 [Grating was missing on Gully Grating Chambers]



Figure 8 [Manholes without any Later Support/Backfill]



Figure 9 [Damaged Sullage Carrier]

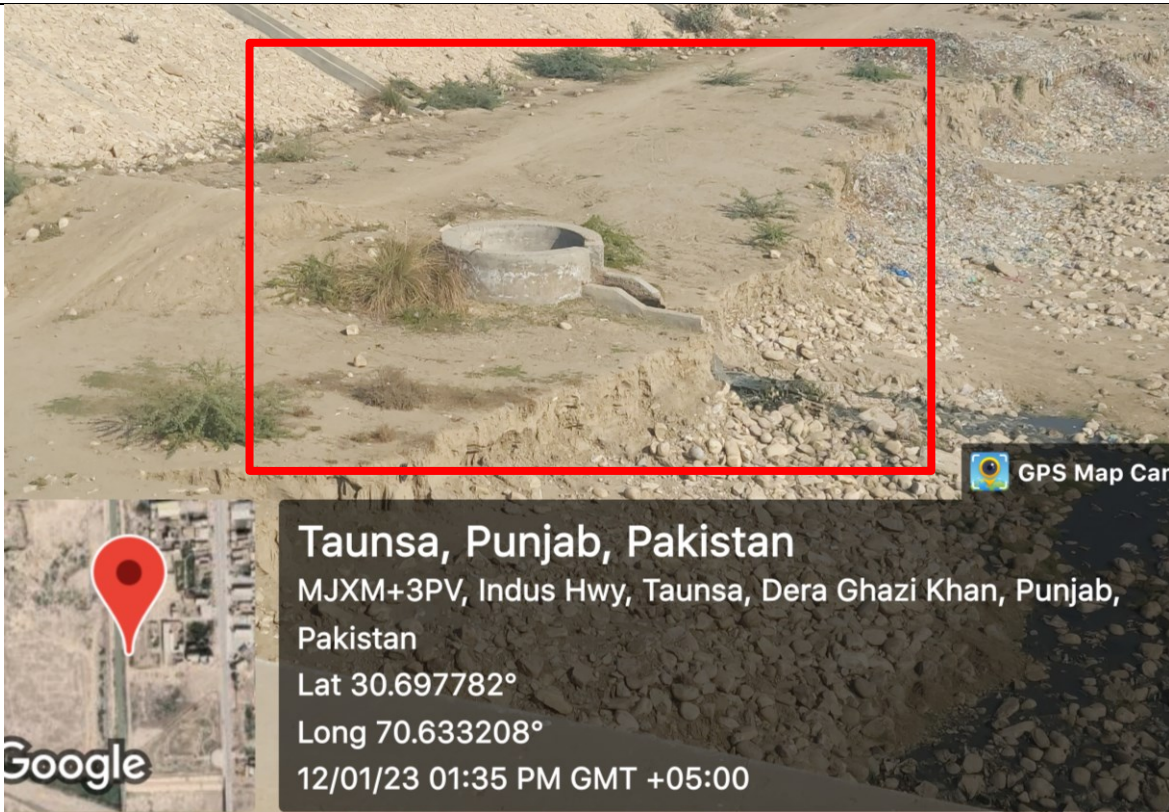


Figure 10 [Damaged Sullage Carrier]

GOVERNMENT OF THE PUNJAB
HUD & PHE DEPARTMENT

Dated 12 -02-2015

**ORDER**

NO.SO(PH-S)10-13(D.G.KHAN). Reference PDWP meeting held on 19.01.2015 and P&D Department letter No.12 (6) R.O (COORD)P&D/2015 dated 30.01.2015 (copies enclosed), the Governor of the Punjab is pleased to approve the Administrative Approval regarding "Comprehensive Sewerage / Drainage Scheme Taunsa Sharif including Tuff Tiling of Streets" at a cost of Rs.485.406 million (Rupees four hundred eighty-five million and four hundred six thousand only).

2. The expenditure involved is debitable to the Head Grant No.PC22036-(036) Development-06-Housing & Community Amenities-063-Water Supply-0631-Water Supply-063102-Work (Construction & Operation) A12501-Works-Urban during the year 2014-15 subject to the strict financial regularities.

**SECRETARY
HUD & PHE DEPARTMENT**

No. & Date Even.

A copy is forwarded for information and necessary action to:

1. The Accountant General, Punjab, Lahore.
2. The District Accounts Officer, D.G.Khan

[Signature] 12-02-15
**SECTION OFFICER (HUD)
FINANCE DEPARTMENT**

No. & Date Even

A copy is forwarded for information and necessary action to:

1. The Chief Engineer (South) PHE Department, Lahore.
2. The Deputy Secretary (Exp). Govt. of the Punjab, Finance Deptt.
3. The Chief (PPH), Govt. of the Punjab, P&D Department.
4. The Assistant Chief (Coord-II), Govt. of the Punjab, P&D Department with reference to his memo No.12(6)PO(COORD)P&D/2015 dated 30.01.2015.

[Signature] S. M. F

[Signature] 12/02/15
**SECTION OFFICER (PH-S)
042-99213134**

Test Report



(7)

GOVERNMENT OF THE PUNJAB
PUBLIC HEALTH ENGG: REGIONAL RESEARCH LABORATORY
SHAMSABAD COLONY, MULTAN. TEL: 061-9239926.

email - rrl.phedmul@yahoo

Page No.1.

To

Lab No. 97344-57

The Sub Divisional Officer,
Public Health Engg:Sub Division,
Taunsa.

No. RLM- 236

Dated:- 10.02.2016.

Subject: -

CRUSHING STRENGTH OF CONCRETE CUBES / CYLINDERS SAMPLES

Reference: -

Your letter No. 52 Dated:- 25.08.2015.

a) Name of work: Comprehensive Sewerage/Drainage Scheme Taunsa Sharif Including Tuff Tiling of Street, Tehsil Taunsa Distt:D.G.Khan.


b) Sample(S) Received on 09.02.2016.

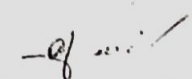
| Sr. No. | Mark / No. of Samples | Date of Casting | Date of Testing | Sample No. | Description of the Sample | Load Applied (Lbs.) | Crushing Strength in PSI |
|---------|-----------------------|-----------------|-----------------|------------|---------------------------|---------------------|--------------------------|
| 1 | 24"vd (1:1½:3). | 24.07.2015. | 10.02.2016. | 1 | Conc.Cube (6"x6"x6") | 159000 | 4417 |
| 2 | 24"vd (1:1½:3). | 24.07.2015. | 10.02.2016. | 2 | Conc.Cube (6"x6"x6") | 156500 | 4347 |
| 3 | 21"vd (1:1½:3) | 24.07.2015. | 10.02.2016. | 1 | Conc.Cube (6"x6"x6") | 161000 | 4472 |
| 4 | 21"vd (1:1½:3). | 24.07.2015. | 10.02.2016. | 2 | Conc.Cube (6"x6"x6") | 158000 | 4389 |
| 5 | 18"vd (1:1½:3). | 24.07.2015. | 10.02.2016. | 1 | Conc.Cube (6"x6"x6") | 155500 | 4319 |
| 6 | 18"vd (1:1½:3). | 24.07.2015. | 10.02.2016. | 2 | Conc.Cube (6"x6"x6") | 160500 | 4458 |
| 7 | 15"vd (1:1½:3). | 25.07.2015. | 10.02.2016. | 1 | Conc.Cube (6"x6"x6") | 157000 | 4361 |
| 8 | 15"vd (1:1½:3). | 25.07.2015. | 10.02.2016. | 2 | Conc.Cube (6"x6"x6") | 158000 | 4389 |
| 9 | 12"vd (1:1½:3). | 25.07.2015. | 10.02.2016. | 1 | Conc.Cube (6"x6"x6") | 152500 | 4236 |
| 10 | 12"vd (1:1½:3). | 25.07.2015. | 10.02.2016. | 2 | Conc.Cube (6"x6"x6") | 160000 | 4444 |

Cont/P-2...

NOTE:

- 1) The test report is based solely on the particular samples supplied.
- 2) Sampling has not been performed by the Laboratory Staff. As such, it does not accept the responsibility that the samples supplied is / are truly representative samples of any batch, stock or entire construction.
- 3) Sampling has been performed by the field staff of the concerned authority.


Research Assistant


JUNIOR RESEARCH OFFICER,
P.H.ENGG;DEPTT. REGIONAL LAB;
MULTAN.

Scanned with CamScanner



ISO Certified
Department

© Directorate General of Monitoring and Evaluation, Planning and Development Board, Govt. of Punjab, 4th Floor, BOS Building, 65-Trade Center Block, Ayub Chowk, Johar Town, Lahore. Ph.: 042-99233176-92, Fax: 042-99233186, Email: info@dgmepunjab.gov.pk. Soft form of the report and corresponding MOM may be downloaded from www.dgmepunjab.gov.pk (December, 2021)