√iRAJ ENGINEERS
Towards Engineering Excellence

# CASE HISTORY

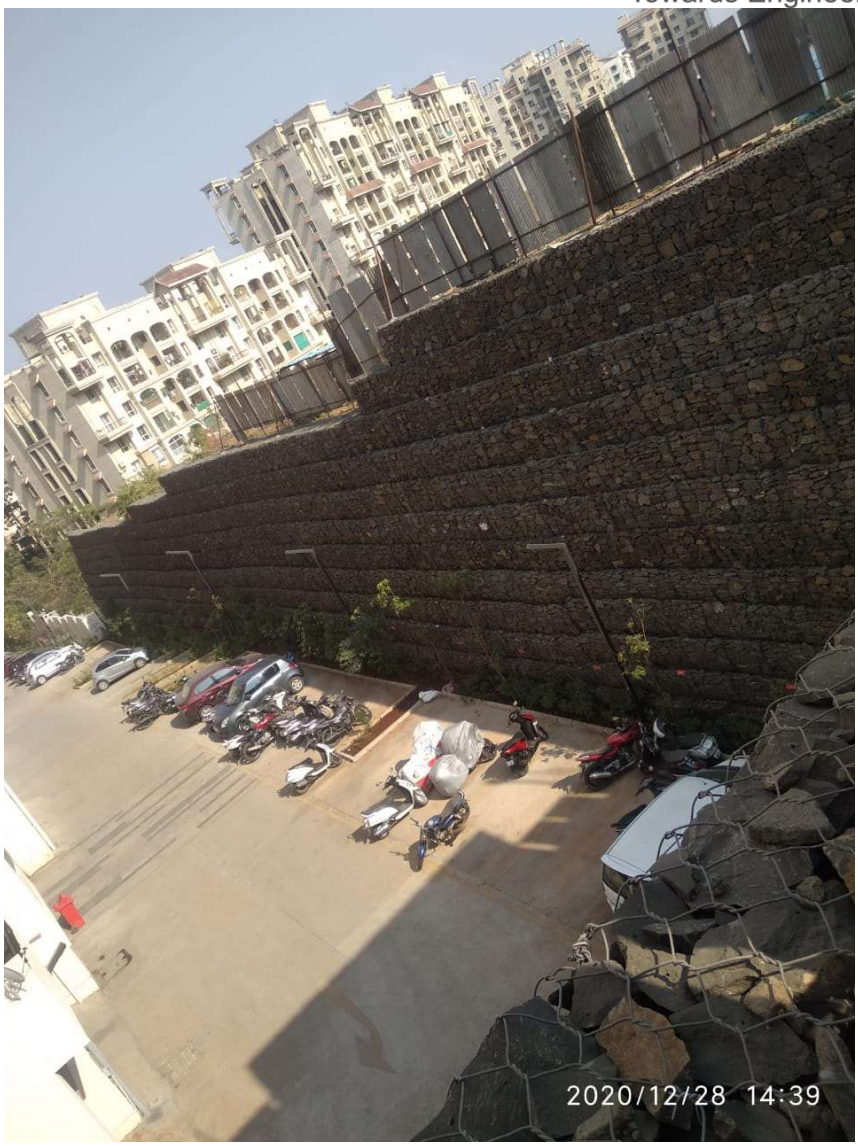
| | |
|---|---|
| **Ref. No.:** CH/18/V/04/18/013 | **Year:** 2019 |
| **Name of the Work:** Construction of Reinforced soil Wall with Gabion facia at Puraniks Abhitante Bavdhan Pune. | |
| **Client:** Puraniks Buildcon Pvt Ltd | |
| **Proof Consultant:** Mr. Jaydeep Wagh & Walter P Moore | |
| **Site Address:** Puraniks Abhitante Bavdhan, Pune | |
| **Type of Work:** Design, Supply and Construction of Reinforced soil wall with Gabion Facia at Puraniks Abhitante Bavdhan, Pune. | |
| **Start Date:** 26th Nov 2018 | **Completion Date:** 22h Oct 2019 |
| **Value of Work:** 103.29 lacs | |
| **Nature of work:** | The proposed work was to be carried out for Puraniks Abitante Project. During the initial design and planning phase it was identified that there are lot of unused good quality stones that can be utilized and used in the work.<br>Viraj Engineers were involved in Design and analysis, Supply of materials required and construction of Reinforced soil wall with Gabion facia.<br>The details of the project are as under,<br>Maximum Height of the retaining structure – 14m<br>Minimum Height of the retaining structure – 4m<br>Stretch length – 226m<br>Quantity of work done – 2118 cum<br>Challenging situations occurred during the excavation as hard rock was found, this created delays in excavation which had the potential to impact the overall project.<br>ViRaj Engineers proposed a Design revision to overcome these obstacles this reduced the need to breakout these large rocks to save the project delivery time and economic impact.<br>Progress of the project was also achieved under various challenging circumstances, as the 100% of the stone were to be used which are available on site. So the challenging task was to issue the stone of required size and find the required stone size it |

| | |
|---|---|
| | the stone of required shape and size (150 – 250 mm).<br>Even with the consideration of these conditions an average stone filling of 30 sqm/day was achieved.<br>Specialty of the project was to improve the soil retaining capacity of the wall, the aesthetic requirement.<br>Improving soil performance with Geogrid reinforcement, geogrids are laid horizontal within the compacted soil mass during construction. Reinforcing is due to their high tensile strength and good interaction with soil.<br>The client specific project needs were meet with the satisfaction. |

**RE wall With Gabion facia.**

√iRAJ ENGINEERS

Towards Engineering Excellence


2020/12/28 14:39