

## Case History

### Pipeline Coating Repair Works at for 42” dia. SBHT pipeline at river crossing Mindola at Abhuva, Hazira Sector, Gujarat.

**Project Summary:** At the project site, the Existing Pipeline was exposed at many location at river bank over a period of time, where in Onshore Pipeline the Bituminous/Concrete coating have got ripped off/damaged/dis-bonded and same has to strengthen by placing boulder filled gabions, Construction of boulder fill, installation of geotextile spread and sand cement bags.

| Project Details   |   |
|-------------------|---|
| Client's Name     | M/s.ONGC  |
| Consultant        | ABSG Consulting Inc   |
| Construction Year | 2020  |
| Product Used      | 1.Denso Paste,<br>2.Densyl Mastic,<br>3.Marine Piling Tape,<br>4.Densyl Tape,<br>5.PVC Outer Wrap,<br>6.Cement Sand Bags,<br>7.Nonwoven Geotextile,<br>8.PP Geotextile Bags Wrapped PP Rope Gabion Boxes<br>9.Zn+Pvc Gabion Boxes |
| Contractor Name   | Atharva Construction  |
| Work Value        | 71 Lakh   |



Site Photographs Before Commencement of Work.

**Solution Details:** It was required to carry out the trenching work to expose the pipeline by placing wooden supports below pipeline, surface preparation including removal of concrete coating and cold apply corrosive protective coating as per specifications. It was required to provide adequate protection against tidal wave with bund of boulders in PVC coated wire grid gabions, Cement Sand Bags, Geotextile Bags Wrapped with PP Rope Gabion Boxes.



Pipeline Coating Repair Works

Wherever, any section of the pipeline is required to be re-coated with corrosion protective coating are found coated with concrete coating & Coal Tar Coating (CTE), the concrete layers shall be removed by using methods like cutting machine followed by removal of CTE coating by suitable method.





Construction of Protection Bund of Sacrificial Nature with PP geobags filled with sand. The Base of the Bund shall be 3.0m with a height of 1.0m with top width of 2.0m.

The Weight of the Each sand filled geobags is higher than 150kgs and PP geobags to be used for higher weight i.e., between 1500-2000kgs.

It is required to conduct a level survey of an area of 2.0km across ONGC pipelines and with a width of 80-100m from the bund towards shore line with a grid level of 10mx4m (Pre & Post Monsson once in six months) Post Construction.







**Completed Structure.**