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Monitoring of Road Maintenance Work

Web and Mobile Based

System Features

→ Web and Mobile based application.

→ Officials can define different Road Maintenance KPIs with Bench mark and Penalty amount.

→ Officials will assign daily basis maintenance works to the contractor through mobile app with Geo-tagged photo (Before work).

→ The Contractor / agency will address the assigned work and upload the work completed photo through mobile app with auto Geo-tagged location.

→ Application will find out the defaulter work list and execute and calculate the required penalty as per awarded tender to the contractor.

→ Officials will monitor the number of assigned, completed, pending and defaulter works.

→ Monitoring of Monthly basis contractor works Progress become easy.

→ Work duplicity is avoided.

→ Tracking of real work location (proposed & completed) through Google Map is become possible.

→ Agency can monitor their daily basis work done by their supervisor.

Application Scope

→ NMMC Road Department has taken initiative to Design and Develop the web and mobile based monitoring application for the monitoring the comprehensive contract work at contractor.

→ The Mobile APP will be used for the collection of KPI wise data at contractor level with real time location photo with latitude and longitude and web application will be used for the generating Dashboard reports at Commissioner & Contractor level.

The Scope of web & mobile APP includes -

MOBILE APP SCOPE -

→ Contractor can upload the Before work photo with geo-tagged photo.

→ Provided facility for NMMC Junior Engineer and Deputy Engineer to approve the work.

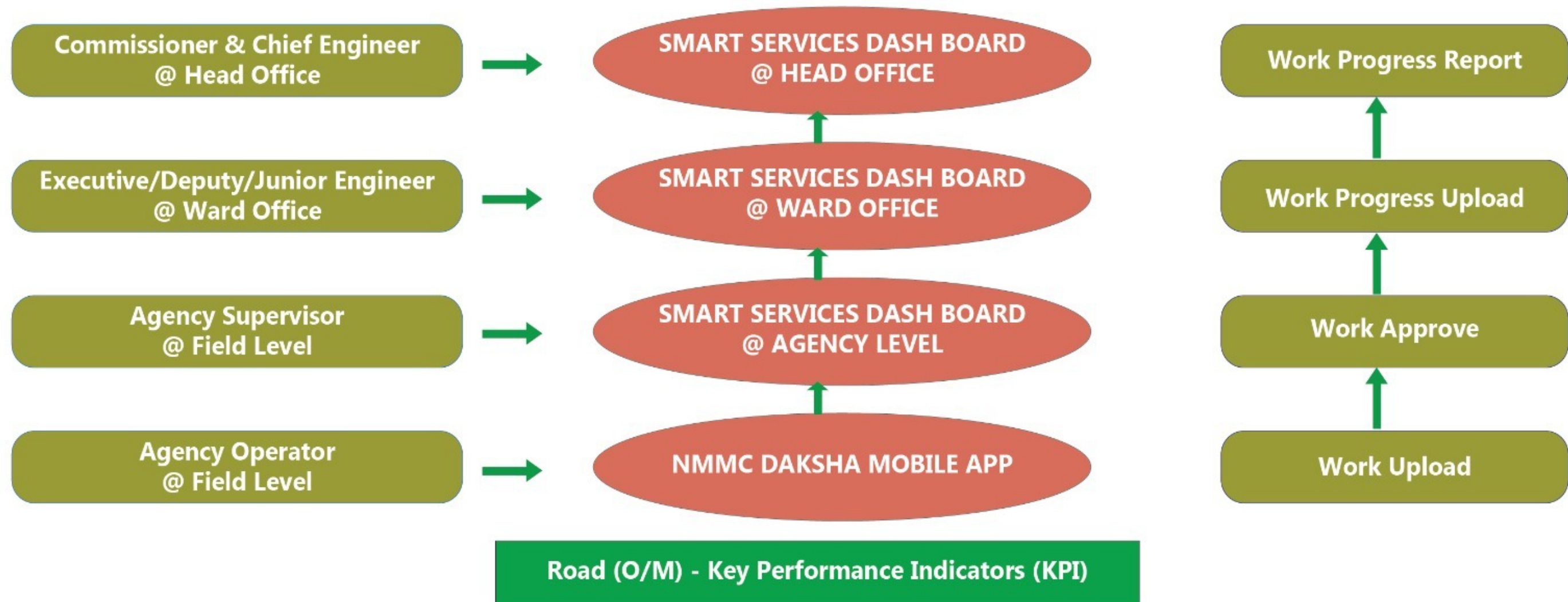→ Contractor can address the work by uploading After photo with Geo-Tagged.

WEB APPLICATION SCOPE -

→ To design the Dynamic dashboard for the Contractor and NMMC Officials

→ To create the work completed and pending KPI list with Monthly Basis Detailed and penalty reports.

→ KPI wise Penalty Calculation as per Bench mark.

Proposed Users

Sr. No	Office	User Level
1.	NMMC	Commissioner
2.		Junior Engineer / Deputy Engineer
3.	Contractor	Contractor

NMMC SMART SERVICES APPLICATION for MONITORING ROAD (O/M) WORK

Commissioner & Chief Engineer @ Head Office	→	SMART SERVICES DASH BOARD @ HEAD OFFICE	Work Progress Report
Executive/Deputy/Junior Engineer @ Ward Office	→	SMART SERVICES DASH BOARD @ WARD OFFICE	Work Progress Upload
Agency Supervisor @ Field Level	→	SMART SERVICES DASH BOARD @ AGENCY LEVEL	Work Approve
Agency Operator @ Field Level	→	NMMC DAKSHA MOBILE APP	Work Upload

Road (O/M) - Key Performance Indicators (KPI)

- Filling of Pot Holes
- Reinstating Trenches
- Marking of Thermoplastic Lane
- Marking of Zebra Crossing
- Marking of Speed Breaker
- Joint Filling in Concrete Pavement
- Fixing of Sign Boards

- FRP Cover Fixing
- Storm Water Drain Repairs
- Crash Barrier Fixing & Repairs
- Removal of Debris
- Cleaning & repairs of Sign Boards
- Ms Grill Repairs & fixing of new grills
- Footpath Repairs

- Fixing & repair of Kerb Stone - upto 10 RMT
- Fixing & repair of Kerb Stone - upto 20 RMT
- Fixing & repair of Kerb Stone - above 20 RMT
- RCC Cover Fixing with or without frame
- Removal of Metal & Other Material on carriage way
- Removal of Vegetation for structure / sign boards

Road Maintenance Work – KPI With Bench Mark and Penalty

Sr No	KPI Work Name	Bench Mark	Penalty Description	Penalty Values (Rs.)
1.	Filling of Pot Holes	3 Days	Day Up to 3 Occurrence	125.00
2.	Reinstating Trenches	3 Days	Day Up to 3 Occurrence	125.00
3.	Marking of Thermoplastic Lane	4 Days	Day Up to 3 Occurrence	100.00
4.	Marking of Zebra Crossing	4 Days	Day Up to 3 Occurrence	100.00
5.	Marking of Speed Breaker	4 Days	Day Up to 3 Occurrence	100.00
6.	Joint Filling in Concrete Pavement	4 Days	Day Up to 3 Occurrence	100.00
7.	Fixing of Sign Boards	2 Days	Day Up to 3 Occurrence	450.00
8.	Fixing & repair of Kerb Stone - upto 10 RMT	2 Days	Day Up to 3 Occurrence	700.00
9.	Fixing & repair of Kerb Stone - upto 20 RMT	4 Days	Day Up to 3 Occurrence	1400.00
10.	Fixing & repair of Kerb Stone - above 20 RMT	6 Days	Day Up to 3 Occurrence	3500.00
11.	Footpath Repairs	3 Days	Day Up to 3 Occurrence	100.00
12.	RCC Cover Fixing with or without frame	3 Days	Day Up to 3 Occurrence	200.00
13.	FRP Cover Fixing	3 Days	Day Up to 3 Occurrence	1600.00
14.	Ms Grill Repairs & fixing of new grills	3 Days	Day Up to 3 Occurrence	150.00
15.	Storm Water Drain Repairs	3 Days	Day Up to 3 Occurrence	750.00
16.	Crash Barrier Fixing & Repairs	3 Days	Day Up to 3 Occurrence	450.00
17.	Removal of Debris	1 Days	Day Up to 3 Occurrence	100.00
18.	Removal of Metal & Other Material on carriage way	3 Days	Day Up to 3 Occurrence	100.00
19.	Removal of Vegetation for structure / sign boards	2 Days	Day Up to 3 Occurrence	100.00
20.	Cleaning & repairs of Sign Boards	2 Days	Day Up to 3 Occurrence	100.00

Existing Client - Navi Mumbai Municipal Corporation