

(4A) Introduction to Implementation

*Presentation for RAP3 Senior Technical
Management Course*

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Module Contents

- ❖ Safety and Contract Administration
- ❖ Quality / Time / Cost
- ❖ Achieving supervision with limited resources
- ❖ Care and Respect for our Environment
- ❖ Timely and correct payments
- ❖ RMGs – why they're so important?

Contract Administration

- ❖ Contract Administration: ‘managing’, ‘supervising’
- ❖ Similar principles apply (Works, Goods, Services)
 - emphasis on Works (as the most comprehensive)
- ❖ Safety
 - ❑ ‘If it can’t be done safely, we shouldn’t be doing it!’
 - ❑ Minimisation of risks to acceptable levels (‘risk assessment’)
 - ❑ Make someone responsible/levels of responsibility (‘Safety Officer’)
 - ❑ If you see something unsafe ‘stop it!’
 - ❑ Think ‘what if?’ scenarios

Contract Administration Contd.

- ❖ Time/Quality/Cost (3 fundamentals/ interaction)
- ❖ Time Issues
 - EoTs/LDs – implications of non-collection e.g. Audit
 - Season! (monsoon, planning, multi-year)
- ❖ Variation Orders – ‘changes necessary for the satisfactory completion’ (vs Amendments)

Quality Management Plans

- ❖ Quality Control vs Quality Management/ Assurance Plan (QMP)
 - ❑ 'Control' – checking after the event
 - ❑ 'Assurance' – establishing a management process that 'guarantees' or 'convinces' the outcome – 'get it right first time!'
- ❖ QMP includes:
 - ❑ Activities and Actions (what & how)
 - ❑ Responsibilities (by who)
 - ❑ Frequencies (when and how often)

Works Supervision

- ❖ Resources – never enough to watch everything!
 - ❑ Prioritise activities
 - ❑ Spot checks/element of surprise
 - ❑ ‘Inspect before covering’ - principles
 - ❑ Visual clues e.g. roller marks/proof rolling

Works Supervision Contd.

- ❖ Records – preserve what will be lost:
 - Photos – N.B. pre-works
 - Pre-works levels
 - Written instructions, contractual authorities, CVIs

Works Supervision Contd.

❖ Quality Assurance

- ❑ DON'T – let works start, then check and condemn later!
- ❑ DO – insist on advance Method Statements
- ❑ DO – give demonstrations/coaching
- ❑ DO – insist on a 'trial section'

Environmental Management Plan

- ❖ Explains how to put into effect the requirements of IEE or EIA report
 - E.g. provision of drinking water – by bottle, well, tanker? Etc.
- ❖ Environmental care, good practice and respect for others
- ❖ Principles of 'do no harm' & mitigation

Works Measurement & Valuation

- ❖ Relative to pre-works condition (records)
- ❖ Standard Item Descriptions (coverage), units and method of measurement – cross-referenced to Specification
- ❖ Engineering principles
 - ❑ Total-to-date less the sum of previous payments vs increments
 - ❑ Interim estimates & corrections.
- ❖ Timely payments & Contractor's cash-flow/ workers (RBGs) living expenses

Road Maintenance Groups

- ❖ New approach to routine & recurrent maintenance (Piloted by RAP3 & SNRTP) – now entering 3rd season
- ❖ Involves Groups/Teams (@ 1 person/1.5km)
 - ❑ Enhances efficiency/capability/moral,
 - ❑ Part-time work (approx. 11 days per month)
 - ❑ Targets women and the poor

Road Maintenance Groups Contd.

❖ Sustainability:

- ❑ Simple fixed monthly payment
- ❑ Affordable (~NRs 60,000 km / year)
- ❑ Flexibility in when to work with spare time for other duties and pursuits
- ❑ DDC commitment

END

