

EMPLOYER'S REQUIREMENTS

APPENDIX 2B - CONTRACT KEY DATES AND COMPLETION DATE

The Contractor shall prepare and submit his detailed Programme of Work so as to achieve key dates of various activities on time. The Contractor shall complete the work in a phased manner by fixing priorities to different stretches of work to give access to the other interfacing contractors as per the requirement of project from time to time and as per the key dates (mile stones) indicated below:

Key Dates for structural work of complete viaduct and viaduct in station portion

| Key Dates | Time to achieve (in weeks from date of commencement) | Description of Stage | Liquidated Damages for non-achieving the key dates |
|-----------|--|--|--|
| KD-1 | 6 | Submission of construction programme | 0.01% of contract value per week of delay or part thereof. |
| KD-2 | 6 | Establishing contractor's site project office & Engineer's office, Commissioning of 1st Batching Plant (Production of 1st batch of concrete) | 0.01% of contract value per week of delay or part thereof. |
| KD-3 | 14 | Completion of road widening, Erection of Barricades, dismantling of streetlight from median and erection of the temporary streetlight along the barricades for a length of 2.0 Km (including station portion) to start the piling work | 0.01% of contract value per week of delay or part thereof. |
| KD-4 | 16 | Completion of 1st Formwork of production line for precast U-Girder element for Engineer's approval | 0.01% of contract value per week of delay or part thereof. |
| KD-5 | 10 | Casting of 1st working pile | 0.01% of contract value per week of delay or part thereof. |
| KD-6 | 16 | Commissioning of 2nd Batching Plant | 0.01% of contract value per week of delay or part thereof. |
| KD-7 | 16 | Casting of 1st Viaduct Pier cap | 0.01% of contract value per week of delay or part thereof. |
| KD-8 | 20 | Casting of 1st U-Girder | 0.01% of contract value per week of delay or part thereof. |
| KD-9 | 24 | Erection of 1st U-Girder | 0.01% of contract value per week of delay or part thereof. |
| KD-10 | 40 | Partial Access of the Viaduct including in station area (minimum 2.0 Km in one stretch) to Track contractor for laying track | 0.01% of contract value per week of delay or part thereof. |
| KD-11 | 50 | Partial Access of the Viaduct including in stations area for next 1.3 Km (minimum) in one stretch to Track contractor for laying track | 0.01% of contract value per week of delay or part thereof. |

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|-------|----|---|--|
| KD-12 | 50 | Completion of casting of U/I Girder | 0.01% of contract value per week of delay or part thereof. |
| KD-13 | 56 | Completion of erection of U/I Girder including casting of deck slab & erection of Precast parapet | 0.01% of contract value per week of delay or part thereof. |
| KD-14 | 66 | Full Access of the Viaduct including G.I. Hangers for laying of track and cables | 0.01% of contract value per week of delay or part thereof. |
| KD-15 | 78 | Completion of entire works as per the Contract. | 0.01% of contract value per week of delay or part thereof. |

Key Dates for structural and Architectural finishing works of 03 Elevated Stations

| Key Dates | Time to achieve (in weeks from date of commencement) | Description of Stage | Liquidated Damages for non-achieving the key dates |
|-----------|--|---|--|
| KD-1 | 10 | Casting of 1st working pile | 0.01% of contract value per week of delay or part thereof. |
| KD-2 | 18 | Completion of 1st Formwork for precast elements i.e. Cross arm, Girder for Engineer's approval | 0.01% of contract value per week of delay or part thereof. |
| KD-3 | | Completion of concourse slab | |
| KD-3.1 | 45 | For any two stations | 0.01% of contract value per week of delay or part thereof. |
| KD-3.2 | Deleted | | |
| KD-3.3 | 60 | for balanced stations | 0.01% of contract value per week of delay or part thereof. |
| KD-4 | | Completion of platform level slab and start of PEB work and Architecture finishing work | |
| KD-4.1 | 50 | For any two stations | 0.01% of contract value per week of delay or part thereof. |
| KD-4.2 | Deleted | | |
| KD-4.3 | 65 | for balanced stations | 0.01% of contract value per week of delay or part thereof. |
| KD-5 | | Completion of PEB work and Architecture finishing work and Partial access to system wide contractors in operational rooms | |
| KD-5.1 | 60 | For any two stations | 0.01% of contract value per week of delay or part thereof. |
| KD-5.2 | Deleted | | |
| KD-5.3 | 65 | for balance stations | 0.01% of contract value per week of delay or part thereof. |
| KD-6 | 78 | Completion of Entire work as per the contract | 0.01% of contract value per week of delay or part thereof. |

Note:

- 1) The requirement finalised with system contractor / finishing contractor duly signed by them shall be submitted to Engineer at least two months before the respective key dates.
- 2) The LD levied for not achieving the intermediate Key Dates are refundable if the work as a whole is completed within last key date (i.e. KD-5 for viaduct and KD-6 for stations).
- 3) The above key dates are applicable to the work as a whole and also for individual station.
- 4) The date of commencement is date of issue LoA or Employer's Notice to Proceed to be issued separately.

Key Dates for E&M works of 03 Elevated Stations

| Key Dates | Time to achieve (in weeks from date of commencement) | Description of Stage | Liquidated Damages for non-achieving the key dates |
|-----------|--|--|--|
| KD-1 | 20 | Verification of Detail Engineering (including GFC & Shop drawing) and Submittal of Vendor & Technical proposals of all equipment to Engineer for Approval. | 0.01% of contract value per week of delay or part thereof. |
| KD-2 | 30 | Placement of order and Commencement of delivery of the Electrical & Mechanical System at Site | 0.01% of contract value per week of delay or part thereof. |
| KD-3 | 55 | Installation of the Electrical & Mechanical System at 3 Stations | 0.01% of contract value per week of delay or part thereof. |
| KD-4 | Deleted | | |
| KD-5 | 65 | Stand-alone Testing and commissioning of the Electrical & Mechanical System in whole station including system rooms | 0.01% of contract value per week of delay or part thereof. |
| KD-6 | 70 | Submission of Operations and Maintenance Manuals. | 0.01% of contract value per week of delay or part thereof. |
| KD-7 | 75 | Training of O&M personnel | 0.01% of contract value per week of delay or part thereof. |
| KD-8 | 78 | Integrated Testing & Commissioning and Delivery and handover of the Contract Spares and special tools, test benches, jigs and fixtures and diagnostic equipment to the Employer. | 0.01% of contract value per week of delay or part thereof. |

Note:

- 1) The requirement finalised with system contractor duly signed by them shall be submitted to Engineer at least two months before the respective key dates.
- 2) The LD levied for not achieving the intermediate Key Dates are refundable if the work as a whole is completed within last key date (KD-8 for E&M works of 03 Elevated Stations).
- 3) The above key dates are applicable to the work as a whole.
- 4) The date of commencement is date of issue LoA or Employer's Notice to Proceed.