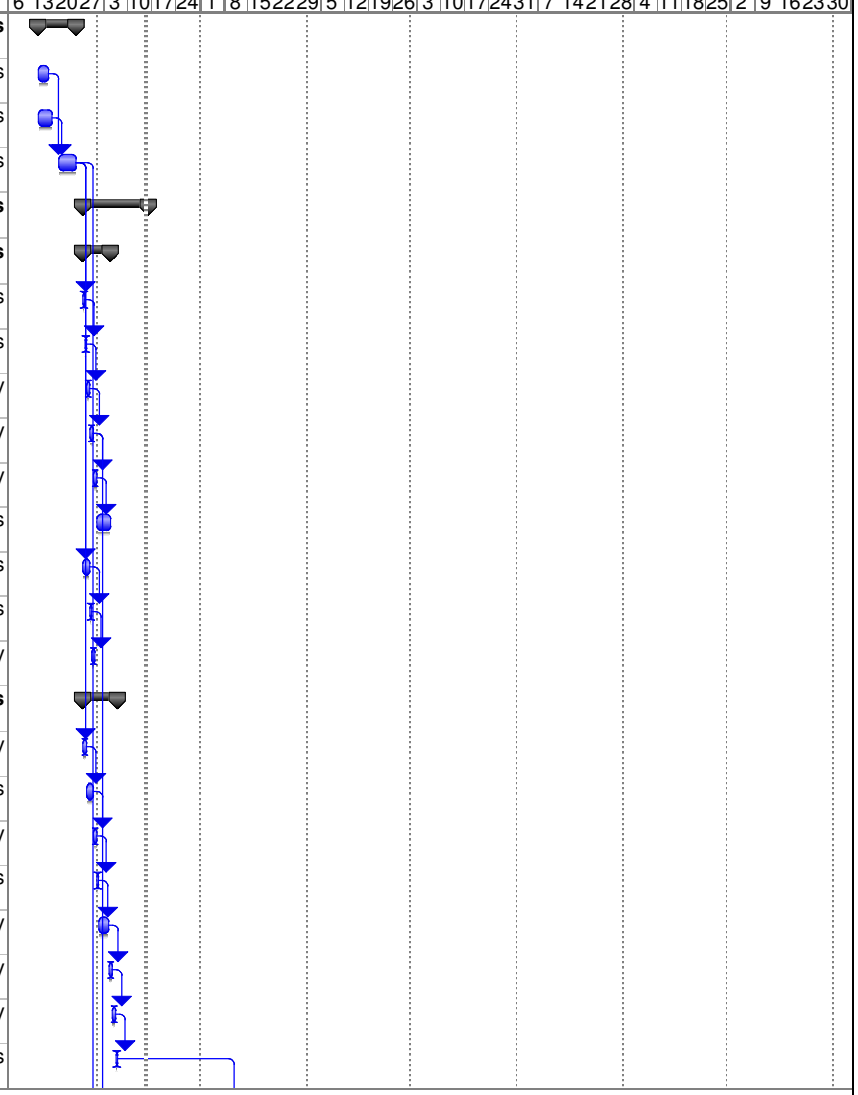
Waste Water Treatment Toolkit Example Gantt Chart

ID	Task Name	Duration
1	**PRELIMINARY ASSESSMENT STAGE**	**9 days**
2	i) Site visit	3 days
3	ii) Municipal Prioritisation confirmation	4 days
4	iii) Status Quo on existing infrastructure	5 days
5	**PRE FEASIBILITY STAGE (CIDB 'Assessment')**	**15 days**
6	**A. Situational Analysis including influent characteristics and treatment plant ass**	**6 days**
7	i) Analyze influent flows (average volumes, daily peaks and storm flo	0.5 days
8	ii) Analyze influent chemical and biological characteristics (COD and B	0.5 days
9	iii) Analyze existing treatment plant capacities (biological and hydraulic)	1 day
10	iv) Analyse treatment processes	1 day
11	v) Analyze and assess existing unit treatment process capacity (incl. s	1 day
12	vi) Confirm receiving water/catchment requirements (legislative and en	2 days
13	vii) Comment on current release/disposal of final effluent, grit, screening	2 days
14	viii) Comment on staffing levels and current plant classification	0.5 days
15	ix) Obtain copies of existing licence, GA or permit as applicable and co	1 day
16	**B. Future Treatment capacity assessment**	**8 days**
17	i) Assess the catchment demographic profile	1 day
18	ii) Confirm development plans (residential and industrial)	2 days
19	iii) Consider assumptions for storm water ingress (increasing or decrea	1 day
20	iv) Recommend requirements for storm flow attenuation	0.5 days
21	v) Assess the expected changes in chemical and biological compositi	1 day
22	vi) Assess the expected changes in incoming flow	1 day
23	vii) Assess the potential changes in treated effluent standards required f	1 day
24	viii) Assess grit, screenings and sludge treatment and disposal requireme	0.5 days



Waste Water Treatment Works Project Preparation: Illustrative Gantt Chart (Timetable)

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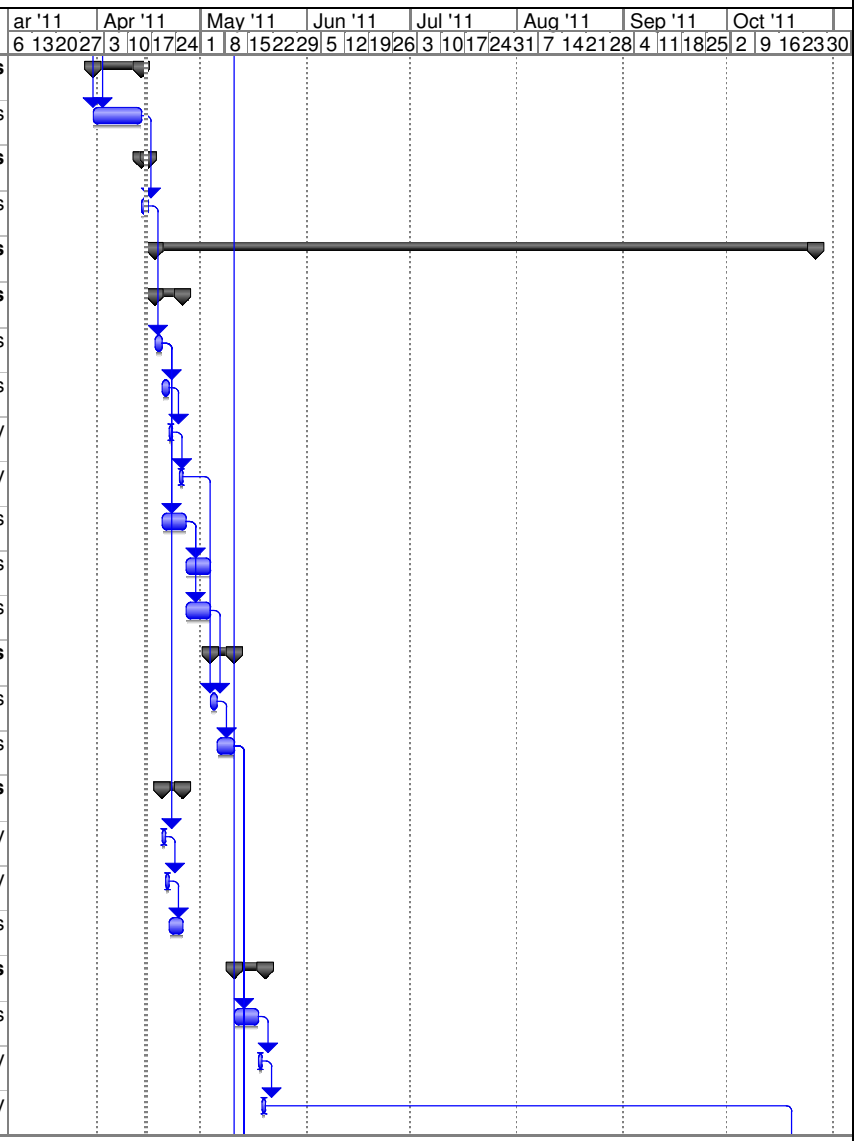
Waste Water Treatment Toolkit Example Gantt Chart

ID	Task Name	Duration
25	**C. Effluent sample testing**	**10 days**
26	In the likely event that no recent and reliable data already exists	10 days
27	**D. Problem statement**	**2 days**
28	Meetings with client municipality etc.	2 days
29	**FEASIBILITY STAGE (CIDB "Concept')**	**138 days**
30	**A. Assessment of upgrading options, recommendations and decision on preferr**	**6 days**
31	i) Assessment of infrastructure upgrading such as modification or ex	2 days
32	ii) Assessment of upgrading of treatment processes,	2 days
33	iii) Assessment of peak flow attenuation; and management issues - inc	1 day
34	iv) Assessment and resolution of Waste Management, Water and othe	1 day
35	B. Geotechnical assessment: (where extensions / new build is required)	5 days
36	C. Geotechnical samples and tests	5 days
37	D. Survey	5 days
38	**E. Conceptual design of preferred upgrading options**	**5 days**
39	i) Process modifications, new site, new process, re-cycle streams et	2 days
40	ii) First stage sizing of new plant components incl. upgrading of mech	3 days
41	**F. Logistical assessment & plan:**	**4 days**
42	i) logistics and plan for implementation (e.g. material suppliers, trans	1 day
43	ii) operational logistics (e.g. long term conveyance of residue such as	1 day
44	iii) maintenance logistics (e.g. access to M&E equipment, removal and	2 days
45	**G. EPWP / local job creation:**	**7 days**
46	i) plan for creation of local skills development and work opportunities	5 days
47	ii) classification of the proposed works and assessment of operator tra	1 day
48	iii) identification of formalised training needs and facilitation thereof	1 day



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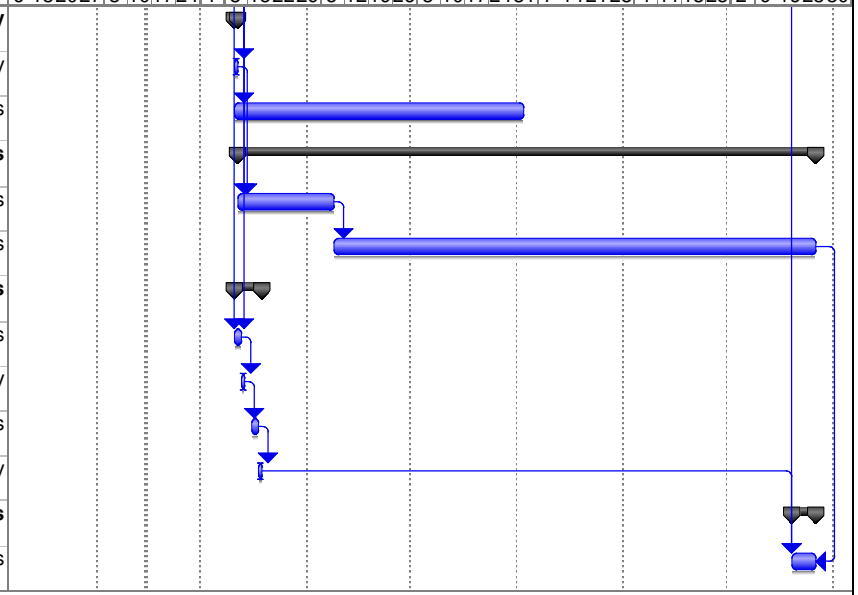
Waste Water Treatment Toolkit Example Gantt Chart

ID	Task Name	Duration
49	**H. Preliminary environmental Assessment:**	**1 day**
50	Determine if a listed activity is triggered	1 day
51	I. Community participation and consultation	60 days
52	**J. Environmental Approvals:**	**120 days**
53	i) Basic Environmental Assessment for minor works, or	20 days
54	ii) Environmental Impact Assessment where required on major chang	20 wks
55	**K. Implementation Estimates & Programme:**	**6 days**
56	i) Estimates for capital costs,	2 days
57	ii) Operation and maintenance costs (10 to 15 year life span),	1 day
58	iii) Financial viability and socio economic analysis	2 days
59	iv) Detailed programme (timetable) for implementation	1 day
60	**L. Final report & MIG/MIS Application Form:**	**5 days**
61	Follow up on required approvals	5 days



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