

Subject :	CALCULATION FRONT END LOADING INDEX INDUSTRY				
Project Name:	Warmtecentrale Loppersum				
Client:	Gemeente Eemsdelta				
Author:	RTUW	Checked by:	AKNL	Order no.	55682.10
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Factor	Maximum	Good	Reasonable	Poor	Minimum	Score
Basis of Estimate Max. score = 20	Detailed equipment list 100 % covered by quotations 20	Detailed equipment list, some quotations present 16	Detailed equipment list, factor estimate and some budget quotations 12	Only main equipment, factor estimate and no budget quotations 8	Reduced equipment list, scale up of equipment 4	12
Client effort Max. score = 15	Production is close involved in design and lay-out studies 15	Some involvement of the client in design and lay-out 12	Review of concept design by client 9	Limited client input for the design 6	No client input 3	9
SHE reviews Max. score = 10	Implementation of recommendations from SHE reviews 10	Recommended actions from SHE review are well formulated 8	Preliminary estimates of requirements during reviews 6	Requirements have not been identified yet. 4	No information available for the site location 2	4
Permits Max. score = 5	All actions finished for submittal of permits 5	Required actions are known, permitting is on its way 4	Most of the permit requirements are known. 3	Only limited information about permit requirements 2	Permit requirements are still in the dark 1	3
Plot plans Max. score = 10	Based on equipment dimensions and accesability. Detail plot plans and PID's are available 10	Mainly based on equipment dimensions and accesability requirements 8	Preliminary plot plan 6	All equipment dimensions are known but no plot plan made 4	Only information available of main equipment 2	6
Project execution plan Max. score = 15	Contracting strategy, project schedule and parties involved are known. Detail time schedules are available 15	Contracting strategy, project schedule and parties involved are known. No detail time schedules are made 12	No project schedule. Parties involved are partly known. 9	Only milestones are defined 6	Main milestones are assumed 3	9
Soil investigation Max. score = 5	Soil investigation report is finished for location of heavy equipment 5	Soil investigation started for location of heavy equipment 4	Soil investigation initiated for the site location 3	Preliminary soil investigation for the surroundings of the site location 2	Preliminary soil conditions were assumed based on general soil reports of the area 1	1
Engineering progress Max. score = 20	> 40 % completed 20	10 - 40 % completed 16	5 - 10 % completed 12	2 - 5 % completed 8	< 2 % completed 4	12
FEL Index						56
Contingency						21,6%