



the performance of technology



Production of **disposable examination gloves** in the Netherlands

MAIN PROJECT HIGHLIGHTS

26-01-2021

5.1.2e

1. New “DISPOSABLE EXAMINATION GLOVES” Plant in The Netherlands

2. Plant Capacity

- Initially 2 lines with 5.1.1c gloves/hour each.
- Future expansion with 5 extra lines of 5.1.1c gloves/hour each.

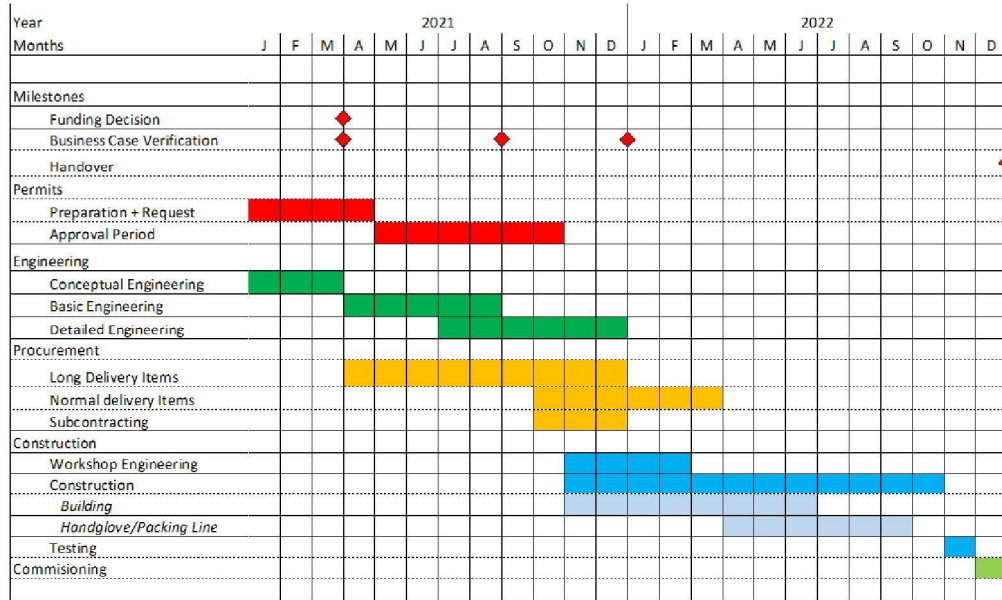
3. Project Scope

- Full EPC project from Greenfield to working plant
- Main project phases:

Phase	Description	Start	Finish
0	Oriëntation	01.10.20	16.01.21
1	Permits / User Requirements Specification	18.01.21	28.02.21
2	Conceptual Engineering	01.03.21	09.04.21
3	Basic Engineering		
4	Detailed Engineering		
5	Vendor/Contractor Engineering		
6	Construction & Testing		
7	Commissioning		
8	Handover		

SCHEDULE (BEST CASE)

4. Project Schedule



KEY/CRITICAL ACTIVITIES

26-01-2021

5.1.2e

1. Milestones

- Funding
 - *In order to get a positive funding decision, a well prepared and realistic cost estimate + schedule has to be presented by the end of the conceptual engineering.*
- Sustainability initiatives
 - *Start with BREEAM certification from the start, engage on initiatives like reverse osmosis to reduce the usage of (waste) water and raw materials. Ensure that the building is smartly designed for multi purpose usage. Furthermore we strive to maximize re-usage of heat/energy.*
- Business Case Verification
 - *After each engineering phase a more accurate estimate/schedule will be available, on which the business case will be evaluated.*

2. Permits

- Preparation + Application
 - *A good and thorough preparation of the permit application is the key to a smooth approval.*
 - *Normally the approval period takes almost 1 year.*
- Approval period
 - *In order to get the permits for this project in time a good coöperation with the authorities is required, this is only possible if the information is well prepared and complete right from the start.*

KEY/CRITICAL ACTIVITIES

26-01-2021

5.1.2e

3. Delivery handglove + packing lines

- Specification, Quotation and Contract
 - *In order to get a positive funding decision a well prepared specification and quotation has to be prepared, clearly pointing what is included and excluded from the scope of delivery.*
 - *The contract shall be well prepared and shall include mitigation strategies for the risks involved with*
 - 1) *Engineering and manufacturing handglove/packing lines in Malaysia*
 - 2) *transporting them to The Netherlands*
 - 3) *Erecting them in The Netherlands with local contractors*
- Schedule
 - *In order to keep the schedule as presented earlier in this presentation the specification/Quotation/Contract shall be prepared "Ready For Order" so that immediately after a positive funding decision the PO can be placed.*

4. Cost Estimate +/-40% + Schedule

- *Scope exclusions Inoova/Sama*
 - *In order to get a positive funding decision the estimate shall be complete, covering the whole project scope. There for VIRO needs all available information in an early phase (especially the scope excluded by Inoova/Sama from the scope of delivery) so that alternative solutions can be worked out, priced, and the schedule consequences can be investigated.*

CONCLUSION

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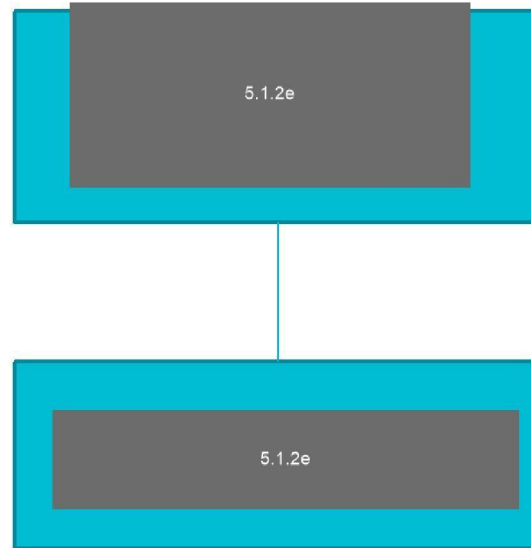
5.1.2e

To achieve this the following is required:

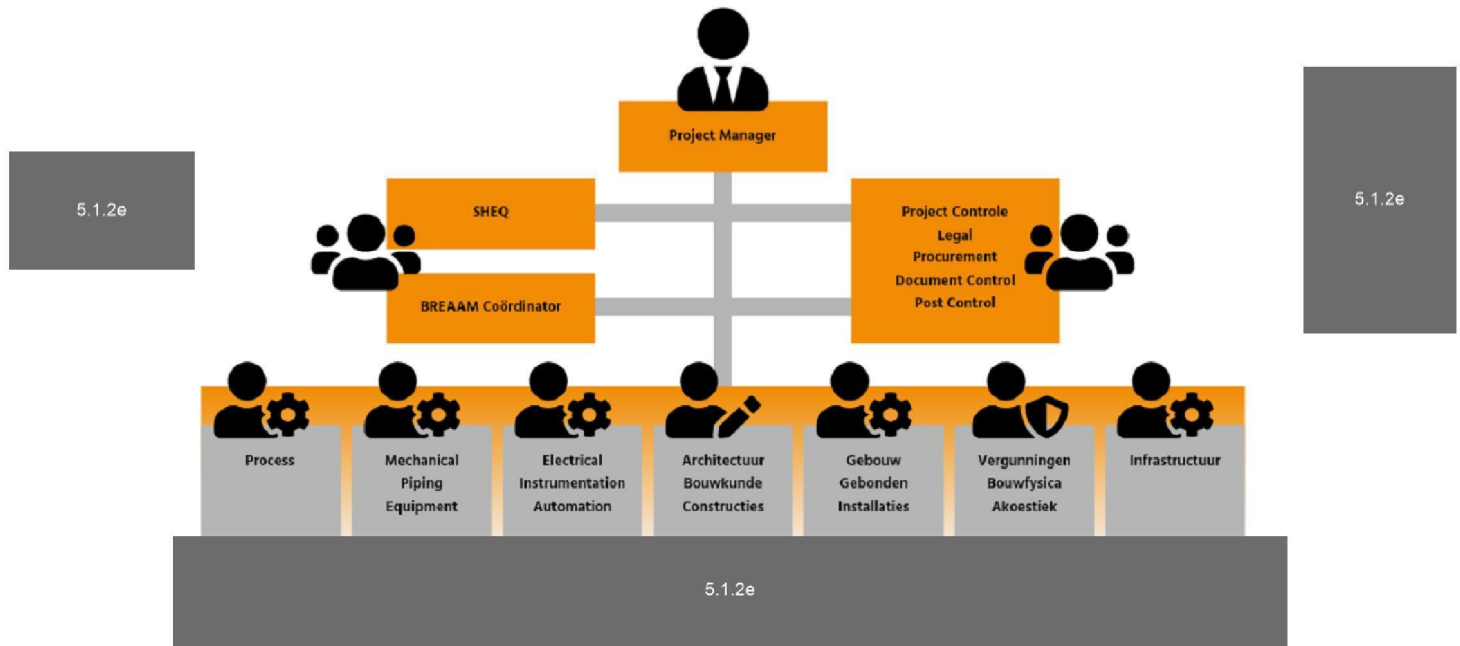
- *Smooth communication/coöperation.*
 - ✓ *Each party has one single point of contact, who is responsible for communication with other parties and has to align with his organization.*
 - ✓ *Minimize number of people in Teams meetings*
 - ✓ *Put camera's on during Teams meetings, this increases the understanding and can help avoid language problems.*
 - ✓ *Minimize the number of addressees in emails. Single point of contact is responsible to inform the own organization. Only Mr 5.1.2e and Mr 5.1.2e need to be in cc. This avoids a lot of misunderstandings.*
- *Action plan with timing based on milestones to be met.*
- *Frequent meetings (based on a upfront agreed agenda).*
- *Quick response times of all parties.*

- *There is a lot of work to do, in a short period of time!*

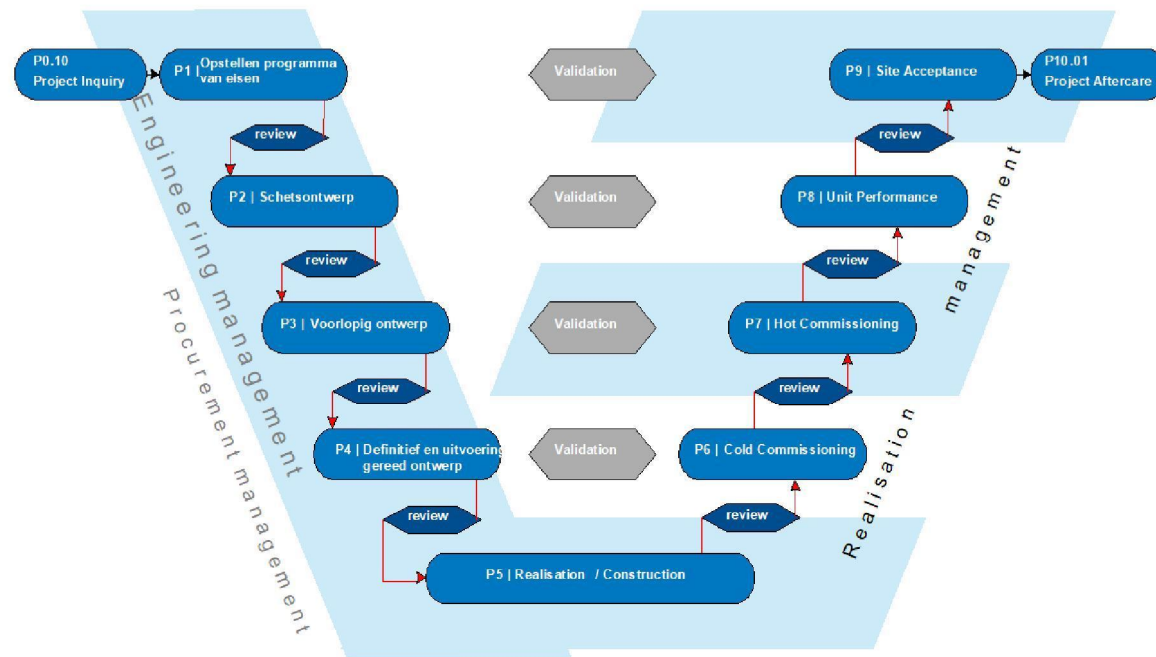
PROJECTORGANISATIE



PROJECTTEAM & COMMUNICATIE



PROJECT AANPAK



PROJECTFASERING

FASE 1:	Opstellen Programma van Eisen	
FASE 2:	Schetsontwerp	+/- 40% begroting
FASE 3:	Voorlopig ontwerp	+/- 20% begroting
FASE 4:	Definitief ontwerp	+/- 10% begroting
FASE 5:	Uitvoeringsgereed ontwerp	
FASE 6:	Realisatie en commissioning	
FASE 7:	In bedrijf name plant	
FASE 8:	Nazorg	

CONTRACTVORM EN KOSTEN

VIRO voert dit project uit als EPC(m) contractor.

De inkoop wordt door VIRO verzorgd op naam en risico van 5.1.5

VIRO doet het management van alle contracten. De risico's moeten via EPC-contracten met afzonderlijke leveranciers zoveel mogelijk aan de andere kant van de tafel komen te liggen.

Wij ontzorgen 5.1.5 volledig in het realiseren van een productieplant voor handschoenen. De gehanteerde contractvorm is de DNR 2011.

De inkopen van equipment, zoals productiemachines en alle randapparatuur, inclusief montage wordt door VIRO verzorgd en door opdrachtgever tegen vaste prijzen ingekocht op basis van EPC-contracten.

PROJECTDOELSTELLINGEN

1. Het binnen de beschreven scope ontzorgen en ondersteunen van [REDACTED] 5.1.5 in de realisatie van een nieuwe fabriek voor de productie van rubberen medische handschoenen.
2. Productie van [REDACTED] 5.1.1c handschoenen per uur; 2 lijnen in eerste instantie.
Uitbreidbaar tot [REDACTED] 5.1.1c stuks per uur; 7 lijnen
3. Volledig geautomatiseerd
4. Voldoen aan de gestelde kwaliteitsnormen
5. Uitvoeren van de duurzaamheidsagenda van [REDACTED] 5.1.5

STAKEHOLDERMANAGEMENT

VIRO/Volantis ontzorgt de opdrachtgever volledig op technisch gebied.

Alle contacten met en het ophalen van de benodigde informatie bij alle betrokken stakeholders wordt door ons verzorgd met één doel:

HET OPLEVEREN VAN DE FABRIEK BINNEN BUDGET EN DE OPLEVERDATUM

O.a. de volgende stakeholders zullen wij “beheren” op het gebied van techniek en bijbehorende voorwaarden:

- Verzekeringsmaatschappij
- Gemeente Delfzijl
- Provincie Groningen
- Brandweer
- Waterschap
- Groningen Seaport
- RABO-bank
- Ministerie VWS
- Inoova
- Leveranciers equipment
- Mechanical EPC-contractors
- Electrical EPC-contractors
- Civil EPC-contractors

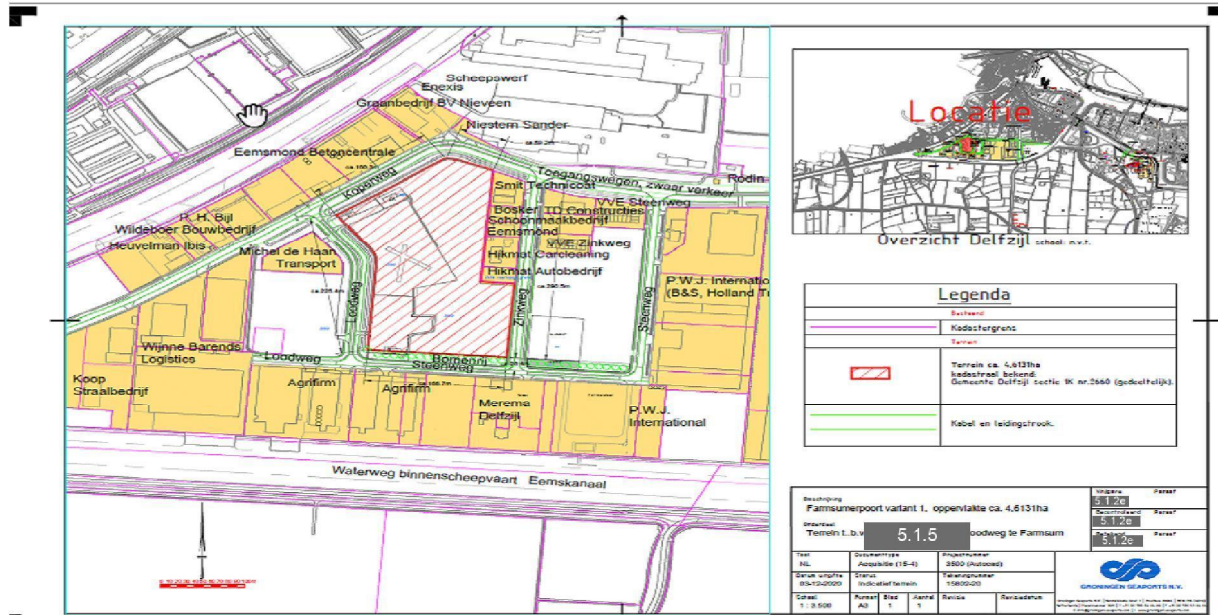
STATUS PROJECT

- Ingenieursbureau Inoova : adviseur i.o.v. 5.1.5
- Sama Kejuruteraan : leverancier productielijn tot aan afpak
probleem: geen kennis van Europese normen
assistentie door VIRO
- Opslag-, tussenmengtanks,
Handling grondstoffen : ontwerp VIRO
- Verpakkingsinstallatie : nog geen leverancier gevonden; turn-key levering VIRO?
- Waterzuivering : selectie principe en leveranciers door VIRO
- Waterbehandeling : business case en ontwerp VIRO

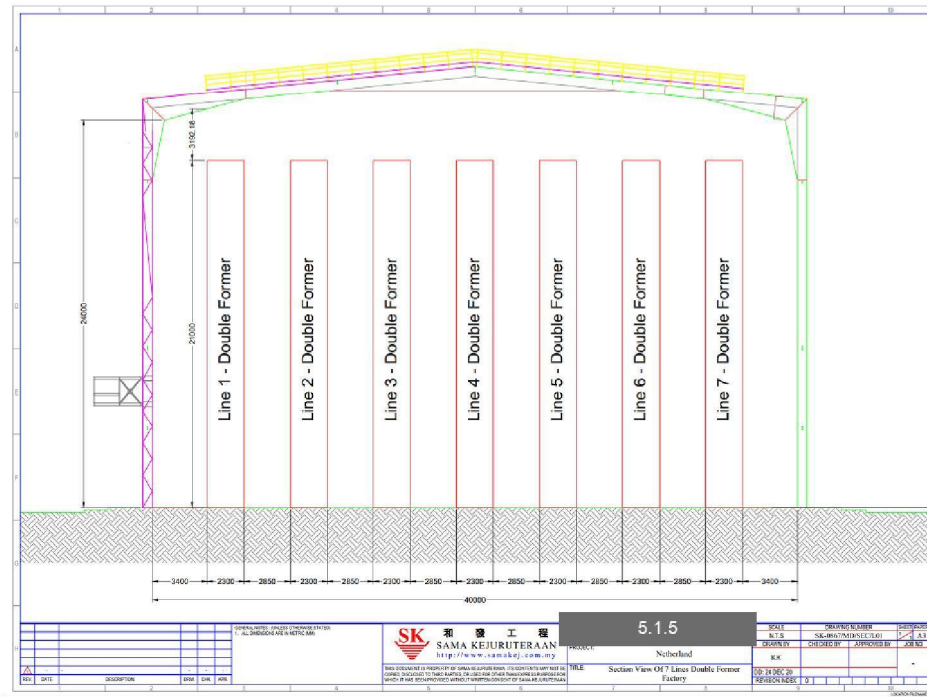
Status project

- Warmte-opwekking : principe keuze en selectie leveranciers VIRO
- Afgassen, MAC-waarden : analyse, principe keuze en selectie leveranciers VIRO
- Automatisering, MES : VIRO
- Bouwkundig : Volantis
- Gebouwgebonden installaties : Volantis
- Infrastructuur : Volantis
- Vergunningen : Volantis;
volledige verantwoordelijkheid voor tijdpad en compleetheid
- Akoestiek : Volantis

Bijlagen



Bijlagen



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