



GREENHOUSE QUESTIONNAIRE

Country: _____

Date: _____

Customer data:

1. Customer/ farm name: _____

2. Farm location: _____ Net area for design: _____ Ha.

3. Tel/Fax: _____ E- Mail: _____

Crop data:

4. Crop: _____. Varieties: _____

5. Bed spacing: _____ (m). Plant spc.: _____ (m). No. of rows/ bed _____

6. Max. Water requirement: _____ mm/d , _____ mm./hr., _____ l/plant per day

Area/ Land Data

7. Gross area: _____ ha. Gross Greenhouse Dimensions: GH1 _____

GH2 _____ GH3 _____

8. Altitude above sea level: _____ m.

9. Attach scale topographic map (1:500 - 1:2500) or a sketch with dimensions,

include/indicate the following check-list on the drawing:

- | | |
|---|--|
| ☐ Boundaries of the sub-area / blocks. | ☐ Row direction. |
| ☐ Leveling / Slopes (%) within a greenhouse (down hill). | ☐ Roads. |
| ☐ Water canals / Structures / Reservoirs. | ☐ North arrow. |
| ☐ Location of water source and its altitude. | ☐ Future expansion. |
| ☐ Existing pipelines. | ☐ Logistic center. |



Greenhouse data

10. Number of spans: _____. Width of spans: _____ m.
11. Number of beds per span: ____ Number of beds per house: ____
12. Height of beds \ tables: _____ m. Height of gutters _____ m.
13. If substrate: Growing in Troughs / Pots .
- Distance between troughs: _____ m.
- Pots per table: _____ No. of rows: _____ No. of pots per row: _____

Soil /Substrate Data

14. Soil type: _____. Percent of: clay _____. Silt _____. Sand _____
15. Soil characteristics: pH _____. Salinity _____. Depth _____ m.
- Existence of stones in soil: yes/no
16. Substrate type: volcanic tuff / Cinder / rock wool / coconut fiber / other

Water data

17. Indicate water source: Lake/ Dam/ River/ Borehole/ Recycled Water/
18. Existing infrastructure:
- Canal - type: Concrete / Earth cross section: _____ m²
- Pipes - type : _____ diameters: _____ mm/inch
- Water Tank / Reservoir: _____ (m³) covered / uncovered

19. Water quality:
- T.S.S.: _____ mg/l. pH: _____. Salinity/EC: _____



Carbonates: _____ mg/l.

Total Iron (Fe^{++}): _____ mg/l

Existence of: Algae - yes/no . Sand - yes/no . Silt/clay - yes/no

20. Water recycling system: required / not required

Pumping / Energy Data:

21. Existing pump:

Pumps - make: _____ type: _____ model: _____

R.P.M. _____. Diameter of impeller: _____ mm.

Capacity _____ m^3/hr . Head: _____ m. (at ground level)

22. Required pumps: Electric / Diesel

Horizontal / Submersible / Vertical Turbine / _____

Required no. of units _____ Including stand by units - yes/no

23. Frequency: 50 / 60 hz. Voltage: 380 – 415v. / _____

24. Existing transformer: _____ KVA. Available KVA for pumping: _____

Location (indicate on map)

Climate Data

25. Mean max.: evaporation _____ mm/d. Temperature _____ $^{\circ}\text{C}$

26. Relative humidity during day time - average: _____ extremes: _____

Technical/ Operational Data

27. Max allowed irrigation time: hr per day: _____. Days per week: _____



28. Irrigation interval: _____ days / _____ times per day.

29. Drip System:

Required type of dripper: _____ / PC/ CNL /Arrow _____

Flow Rate: _____ l/hr. Dripper spacing _____ m.

Number of laterals per bed: _____ Net length of beds: _____ m.

Plants spacing \ population _____

30. Mini Sprinklers System:

Purpose of System: Cooling / Humidity / Irrigation / Germination

Upside-down / on ground / on roof / _____

Required type of mini sprinklers: _____ Flow rate: _____ l/hr.

Spacing between sprinklers: _____ m. No of laterals per span _____

Height of mini sprinklers above plants _____ m. Above ground _____ m

31. Service valve/Wetting system: - manual hand showers

Number of valves per house _____.

Number of valves to be utilized simultaneously per house: _____ per project _____

32. Valves: hydraulic / electric / ball inside / outside greenhouse.



33. Required type of primary **filtration**: Gravel/Screen/Disk/Hydro cyclone/Auto:_____

34. Required type of **fertilization**: venturi / pressure tank / injector / mixer /_____

Type: _____ . Number of fert. channels _____ w/wo Acid:_____.

35. Required type of **automation / control**: non / automatic metering valve/
manual remote control / computer rem. control / auto back flushing/ EC-PH Control

Climate control in GH: Yes / No

36. Required type of **mainline**: PVC/ P.E./_____

Submains: PVC/ P.E./_____

Drip Submains: subsurface/ elevated at _____ m. height

Mini spr. Submains: subsurface/ elevated at _____ m. height

37. Shifts design: concentrated / scattered blocks

No. of valves per house: _____

38. Notes: _____

Minimal Requirements For Quotation Submission:

Bill of Material:

P.O.Box 502, Karkur. 37105. Israel Mobile: XX-972-528-666552

- ☐ Detailed.
- ☐ Semi-Detailed.



- ☐ Drawing.
- ☐ Assemblies Drawings.
- ☐ Technical Description.
- ☐ Other _____

Name: _____ Date: _____

SKETCH