## Section I: Demographics

<b>DM01</b> Approximately how many employee	s work at the plant in to	ntal?	employees
	•		
<b>DM02</b> Approximately what percentage are	·		% of total employees
<b>DM03</b> What percentage of the direct produ	ıction workers is tempo	rary?	% of direct workers
<b>DM04</b> What percentage of plant ownership	is international?		% of plant ownership
<b>DM05</b> What percentage of total sales does	the most important pro	oduct line represent?	% of sales
<b>DM06</b> For your <u>plant's most important pro-</u> Domestic marke	ets: % of Exp	•	tal number should be 100%): of sales
DM07 For your plant's most important pr	roduct line, what perce	ent of purchases come	from (total number should be
100%):  Domestic	suppliers Fore	eign suppliers %	
<b>DM08</b> What percent of plant sales come from	om (total number shoul	d be 100%):	
Affiliates (within you	r firm) %	External (outside	) %
DM9 What percent of plant sales come from Industrial (B2B) Consult %	•	be 100%): vernment (B2G) %	Other %
<b>DM10</b> What is the approximate average ag	e (in years) of the plant -7 y	's production equipme 11-15 y 16-20	
<b>DM11</b> What is the percentage of annual sa  3%  3-4%  5		nufacturing equipment  11-15%  16-20	·
<b>DM12</b> Considering your most important pro		<u> </u>	
< 1 year 1-2	years 3-4 years	5-6 years	> 6 years
<b>DM13</b> What percentage of plant sales is cu	rrently from products tl	nat have been introduc	ed in the last 2 years? % of sales
<b>DM14</b> What percentage of the value of par plant? components	ts or components that o	·	oducts are fabricated within the he value of parts or
<b>DM15</b> What percentage of plant sales is frosales	om services provided by	the plant?	% of
<b>DM16</b> What percentage of the plant's sales as overhead (services: security, travel, etc.		-	
<b>DM17</b> What percentage of the plant's total	manufacturing cost is f	or labor including man	ufacturing managers? % of manufacturing cost
<b>DM18</b> What percentage of the plant's total	manufacturing cost is f	or material?	% of manufacturing cost
<b>DM19</b> What percentage of the plant's total	manufacturing cost is f	or overhead cost?	% of manufacturing cost
<b>DM20</b> The ratio of Cost of Goods Sold to Av	verage Inventory value a	at cost is (COGS/Averag	ge Inventory) turns per year
<b>DM21</b> What is the approximate distribution	n of the plant's inventor	y value? (total number	should be 100%)
Purchased materials and parts	Work-in-process	%	Finished goods %

## Section II: Competitive Priorities, Context and Performance (CG)

**CG01** Please indicate the importance given to each of the following competitive goals by senior management (total number should be 100%)

	Weight percentage
1. Cost	%
2. Quality (Conformance to specifications)	%
3. Delivery timeliness	%
4. Flexibility (e.g., product variety/volume )	%
5. New product or process design/innovation	%
6. Environment/safety	%

CG02 Please indicate your level of agreement with these statements on competitive environment:

	Not a	Not at all Some extent		ent	Great extent		
1. The availability of critical inputs is difficult to predict	1	2	3	4	5	6	7
2. The competitive intensity in your industry is high	1	2	3	4	5	6	7
3. There are many substitutes in the market for your products	1	2	3	4	5	6	7
4. Demand for your products is difficult to predict	1	2	3	4	5	6	7
5. Suppliers of critical inputs have significant bargaining power	1	2	3	4	5	6	7
6. Your customers have significant bargaining power	1	2	3	4	5	6	7
7. Your industry is subject to rapid technological change	1	2	3	4	5	6	7
8. Your competitors are mainly local	1	2	3	4	5	6	7
9. Each year many new competitors enter your industry	1	2	3	4	5	6	7

CG03 What percentage of the plant's purchase orders do suppliers deliver late?

% of purchase orders

**CG04** Considering your <u>most important product line</u>, what is the demand level for a "peak" month (e.g., 20% more than normal = 120)

% of normal

**CG05** Considering your <u>most important product line</u>, what is the demand level for a "trough" month (e.g., 30% less than normal = 70)

% of normal

**CG06** Considering your <u>most important product line</u>, what average percentage would be the forecast error for 2 months in the future?

**CG07** For the total sales for this plant, what average percentage would be the forecast error for 24 months in the future? % of error

CG08 Please indicate your level of agreement with these statements on strategic alignment

Strategic Alignment	Not a	Some extent Great exter					
1. Manufacturing strategy is aligned with corporate strategy	1	2	3	4	5	6	7
2. Manufacturing strategy is aligned with that of other functions	1	2	3	4	5	6	7
3. Business functions meet frequently to coordinate activities	1	2	3	4	5	6	7
4. Manufacturing is powerful relative to other functions	1	2	3	4	5	6	7
5. Manufacturing has clearly defined strategic objectives	1	2	3	4	5	6	7
6. Manufacturing strategy leverages existing capabilities	1	2	3	4	5	6	7
7. Manufacturing strategy is clearly communicated to all staff	1	2	3	4	5	6	7
8. Manufacturing strategy is frequently reviewed and revised	1	2	3	4	5	6	7

**CG09** Please indicate your level of agreement with these statements on plant's capabilities:

Capability	Not a	t all	Some extent Great extent					
1. Your plant has state-of-the-art manufacturing processes	1	2	3	4	5	6	7	

2. Your workforce has superior technological skills	1	2	3	4	5	6	7
3. Your plant has unique manufacturing process capabilities	1	2	3	4	5	6	7
4. You have superior technological know-how in your plant	1	2	3	4	5	6	7
5. This plant has equipment that is protected by the firm's patents	1	2	3	4	5	6	7
6. Proprietary equipment helps you gain competitive advantage	1	2	3	4	5	6	7

CG10 Please Indicate your plant's performance compared to your major competitor(s)?

Plant Performance	Far worse		;	Similar		Far be	
1. Labor unit costs	1	2	3	4	5	6	7
2. Total product unit costs	1	2	3	4	5	6	7
3. Raw material unit costs	1	2	3	4	5	6	7
4. Product performance	1	2	3	4	5	6	7
5. Product conformance to customer specifications	1	2	3	4	5	6	7
6. Pre-sales service and after sales service	1	2	3	4	5	6	7
7. Delivery speed	1	2	3	4	5	6	7
8. Delivery reliability	1	2	3	4	5	6	7
9. Response to changes in delivery due dates	1	2	3	4	5	6	7
10. Production volume flexibility (increase/decrease volume)	1	2	3	4	5	6	7
11. Production variety flexibility (increase/decrease product mix)	1	2	3	4	5	6	7
12. Number of new products introduced each year	1	2	3	4	5	6	7
13. Lead time to introduce new products	1	2	3	4	5	6	7
14. Lead time to implement new or change existing processes	1	2	3	4	5	6	7
15. Lost time accidents	1	2	3	4	5	6	7
16. Consumption of scarce resources	1	2	3	4	5	6	7
17. Discharge of hazardous materials	1	2	3	4	5	6	7

CG11 How did the following financial measures change in the last fiscal year (check one box for each item)?

	Reduced more than 25%	Reduced 15% - 25%	Reduced 5% - 15%	Remained the same -5% - +5%	Increased 5% - 15%	Increased 15% - 25%	Increased more than 25%
1. Total sales of goods and services	1	2	3	4	5	6	7
2. Profitability	1	2	3	4	5	6	7
3. Market share	1	2	3	4	5	6	7

## Please provide approximate values for the following measures for the past financial year for you plant:

**CG12** Percentage of the total number of customer orders delivered in full and on time % of customer orders

**CG13** Average annual machine utilization (percentage of total available machine time) % of total available machine time

**CG14** Considering your <u>most important product line</u>, what is the average manufacturing time from starting production to finishing production (days)

days

CG15 Average customer lead time (from order to delivery, in days)

days

**CG16** Please give the following reject rates:

1. Percent rejects of incoming material	%
2. Percent rejects during processing	%
3. Percent rejects at final inspection	%
4. Percent returns from the customer	

	%
CG17 Percentage of process changes that were considered major:	%
CG18 Percentage of accidents that are lost time accidents accidents	% of

## Section III: Internal Manufacturing Practices (IP)

IP01 Your plant proces	sses are	designed to make	products in th	nese quantitie	s (total	numbe	er sho	uld be	1009	<b>6)</b> :	
One of a kind	%	Small to mediu	ım batch %	Large ba	arge batch Continuo %				prod %	luction	
IP02 Equipment in you	ır plant	is grouped togeth	er in the follov	ving configura	tions (t	otal nu	ımber	should	d be	100%):	
By machine type	%	By product(s) (c %	ells)	Assembly lin	e(s)	%		Flow p	roce	ess	%
IP03 What percentage	of your	products are (tot	al number sho	uld be 100%):							
Engineered/configured	d to ord	er (customized at	the design sta	ge)							%
Standardized end prod	ducts										%
Standardized sub-asse customization)	mblies t	that are interchan	geable – end p	roduct is cust	omized	to ord	ler (po	ostpone	ed		%
<b>IP04</b> Please indicate th	ne exten	it of investment (n	noney, time ar	nd/or people)	in the f	ollowir	ng are	as in th	ie las	st two y	ears:
Investment Areas					Not a	tall	Soi	me ext	ent	Great	extent
1. Quality managemer	nt progra	ams (e.g., TQM, Si	x-Sigma)		1	2	3	4	5	6	7
2. Cost reduction prog	rams (e	e.g., Target Costing	g)		1	2	3	4	5	6	7
3. Manufacturing lead	time re	duction programs			1	2	3	4	5	6	7
4. Planning/scheduling	g proces	ses and methods			1	2	3	4	5	6	7
5. Processing technolo	gies (e.	g., FMS, automatio	on)		1	2	3	4	5	6	7
6. Flexible workforce					1	2	3	4	5	6	7
7. Supplier developme	nt				1	2	3	4	5	6	7
8. Workforce training	and dev	elopment									
9. Environmental impa	ct of op	erations			1	2	3	4	5	6	7
10. Integrating manufa	acturing	and design proce	sses		1	2	3	4	5	6	7
11. Plant information f	flows au	itomation			1	2	3	4	5	6	7
12. Work place health	and saf	ety			1	2	3	4	5	6	7
13. Customer service					1	2	3	4	5	6	7
14. Customer process	integrat	tion			1	2	3	4	5	6	7
15. Supplier process in	tegratio	on									
Considering your plan	t's <u>mos</u>	st important prod	uct line, , plea	se answer the	next t	hree q	uestic	ons			
<b>IP05</b> Approximately, <u>h</u>	ow man	ny part numbers ar	e on a typical	end-item <u>BON</u>	∕l for th	is proc	luct lii	<u>ne?</u> (ch	eck (	one)	
<10	10-29	9 30-49	50-99	100-249	9 🗌	250-1	000	m	ore t	han 10	00
<b>IP06</b> Approximately <u>ho</u> (check one)	ow man	y permanent chan	ges are made	on a typical er	nd-item	вом	for th	is prod	uct li	ne ann	ually?
<u> </u>	<u> </u>	<u> </u>	20-39	40-69		70-1	00	n	nore	than 10	00