



APHA Weybridge

BEMS Survey & Scope Development

Subject to Contract
Confidential

Animal and Plant Health Agency
Woodham Lane
New Haw
Addlestone
Surrey
KT15 3NB

Project name	APHA Weybridge BEMS Survey & Project Scope Development
Name	[REDACTED]
Title	[REDACTED]
Mobile	[REDACTED]
Email	[REDACTED]
Quotation ref.	[REDACTED]
	[REDACTED]

For the attention of Gerrad Ferrier,

We thank you for your BMS upgrade enquiry for the APHA Survey & Project Scope Development works and are pleased to enclose our revised quotation for your consideration.

Under this revision, were removed from our proposal the Risk & CPR Reports from Trend Controls. We have also found savings based on the labour associated with the backups and points list generation by partly offsetting this requirement against other works already underway.

As the incumbent BEMS Support and Maintenance provider, we are best placed and fully committed to working with you to develop the best strategy for the upgrade of the BEMS at your site.

We are one of the largest independent BMS installers in the UK, and have a highly trained team of BMS engineers with a successful projects delivery team. We have delivered a large number of BMS installations and upgrades across the UK via our nationwide branch offices. We are supported in this by being a leading Trend Technology Centre, and accredited as the sole Siemens Master Partner in the UK.

Our projects team are experienced practitioners, ensuring that all projects are well planned, coordinated, installed and commissioned to the satisfaction of all parties. We pride ourselves on excellent communication at all times, and are committed to reinforcing SSE's core health and safety values on all our projects.

We will be happy to assist you with any further clarification of this offer and look forward to working with you on this project.

Yours faithfully

[REDACTED]

[REDACTED]

[REDACTED]

For SSE Energy Solutions

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Project Outline

Our proposal for the Building Energy Management System includes the following within our offer:

- Provision of a Trend trained BMS engineer for the purpose of backing up all site controllers and instances of 963. Backups to be shared with DEFRA.
- Subsequent provision of Trend Asset lists in the form of "Trend Overview" listing controllers as LAN & Outstation, Trend controller points lists as setup within the Trend Strategy. (Please see samples on page 6).
- ~~Appointment of Trend Control Systems for the provision of Risk & CPR Reports for each SET Backup (2 reports for each of the 30 sites).~~
- Provision of a detailed plan for the migration of each building's 963 to IQVision using the client's preferred priority. As part of this, a method statement and project Gantt chart will be developed for approval.
- Composition and provision of sample graphic templates which will be developed in line with the client's BMS Design guide.
- Development and sign off of a process for the Testing and Validation of the graphics which will ensure that graphic point to field device communication is proven without doubt.
- Off-Site project management for the duration of the project
- Provision of reports as appropriate during the course of the project

Description	Cost
Engineering services to carry out backups, provide Asset information, points lists, and develop graphics	£ [REDACTED]
Project Management including site meetings for the development of migration plans, graphics template development, and defining of Testing & Validation process	£ [REDACTED]
Risk & CPR Reports to be provided by Trend Control Systems	£ [REDACTED]
Total	£ [REDACTED]

Qualifications

Our proposal for the Building Energy Management System is subject to the following qualifications:

Non-Spec Compliant Changes

We have noted that the survey scope document made no reference to any requirement to backup the 963 computers as part of the works. We see the backup of the 963 machines as a crucial element of the project as a whole and we have made an allowance for our engineering services to back up the 963 packages.

Site Access

We require unrestricted access to the Trend system on site in order to carry out a full and thorough site backup. Any restriction of access to the system may result in incomplete data as an outcome of our survey work.

SET Strategy Drawings

Please be aware that we've made no allowance for the redrawing of Trend SET Strategy or any strategy alteration. If this is required for any controllers, we will review the work required on a case by case basis as the time required will vary in accordance with controller size and software utilisation.

This does not impact the process of software backups or provision of Asset & Points Lists.

Commercial Qualifications

██
██
██████████ (as amended from time to time).

Tender Documentation

Our proposal is based upon the following tender documentation:

Tender Specifications:



Programme:

Our programme is to be discussed however as a guide we have the following allowances in terms of time:

Engineering Time for backups, Points lists, Assets	2 weeks
Graphics development time for mock ups & templates	1 week
Project management for migration plans	2 weeks

Engineering

Sample Asset list

Lan	Node	Device Type	Device Name	Issue	Revision	Identifier	Controller Version	Mac Address / Serial No.	Presentation Points	Sensors	Digins	Knobs	Switches	Drivers
20	21	IQ 3xcite/96	MCC1 EXT	0	1	MCC1 EXT	IQ3xcite96 Iss2.34 Jun 13 2011	00:10:70:08:09:54	69	40	3	12	8	6
20	27	IQ 3xcite/96	MCC2 EXT	0	1	MCC2 EXT	IQ3xcite96 Iss2.34 Jun 13 2011	00:10:70:00:9D:90	98	37	7	27	17	10
66	11	IQ 4E/128/BACnet/TrendLAN	MCC1 OS11	0	1	MCC1 OS11	IQ4E128 Iss3.52 Oct 8 2018	00:10:70:16:3E:E1	157	60	27	26	13	31
66	12	IQ 4E/128/BACnet/TrendLAN	MCC1 OS12	0	1	MCC1 OS12	IQ4E128 Iss3.52 Oct 8 2018	00:10:70:10:3C:1E	176	50	47	32	16	31
66	13	IQ 251	MCC2 OS13	0	1	MCC2 OS13	IQ251 Iss3.13 Apr 13 2004	88453460	169	65	28	28	16	32
66	14	IQ 251	MCC2 OS14	0	1	MCC2 OS14	IQ251 Iss2.10 Oct 15 1999	80100070	200	66	49	31	22	32
66	21	IQ 221	MCC3	0	1	MCC3	IQ220 Iss2.10 Oct 15 1999	80110501	9	0	8	0	1	0
66	22	IQ 221	MCC4	0	1	MCC4	IQ220 Iss2.10 Oct 15 1999	80110565	9	0	8	0	1	0
66	23	IQ 221	MCC5	0	1	MCC5	IQ220 Iss2.10 Oct 15 1999	80110523	9	0	8	0	1	0

The above image is an example of the format for the Asset List which we will provide for the controllers for each “Trend Site”. The asset list will be in Excel workbook format and we expect there will be an asset list produced for each building (or Trend Site).

Sample Points list

Sensor Number	Typ	Label	Unit	SET Part Number	High Alarm Limit	High Alarm Delta	Low Alarm Limit	Low Alarm Delta	Offset	Sound	Exponent	Alarm Enable ROL	I/O Modul	I/O Chann
1	1	AHU1 EXTRACT CO2	PPM	1 - CO2 V	2000	0	0	0	0	0		1 1 0 0	0	1
2	1	AHU1 POST MIX TEMP	DegC	2 - Thermistor TBTI	115	0	-35	0	0	0		1 1 0 0	0	2
3	1	AHU1 POST RUN RND TEMP	DegC	2 - Thermistor TBTI	115	0	-35	0	0	0		1 1 0 0	0	3
4	1	AHU1 POST CHW TEMP	DegC	2 - Thermistor TBTI	115	0	-35	0	-1	0		1 1 0 0	0	4
5	1	AHU1 POST CHW RH	%RH	3 - Humidity I	100	0	0	0	0	0		1 1 0 0	0	5
6	1	AHU2 EXTRACT CO2	PPM	1 - CO2 V	2000	0	0	0	0	0		1 1 0 0	0	6
7	1	AHU2 POST MIX TEMP	DegC	2 - Thermistor TBTI	115	0	-35	0	0	0		1 1 0 0	0	7
8	1	AHU2 POST RUN RND TEMP	DegC	2 - Thermistor TBTI	115	0	-35	0	0	0		1 1 0 0	0	8
9	1	AHU2 POST CHW TEMP	DegC	2 - Thermistor TBTI	115	0	-35	0	0	0		1 1 0 0	0	9
10	1	AHU2 POST CHW RH	%RH	3 - Humidity I	100	0	0	0	0	0		1 1 0 0	0	10
11	2	AHU1 CO2 FA DAMPER DMD	%		0	0	0	0	0	L1D	0 0 0 0 0			

The above image is an example of the format for the Points List which we will provide for each controller backed up at each “Trend Site”. The points list will be in Excel workbook format and will have separate sheets for Sensors, Digital Inputs, Knobs, Switches & Drivers.

Project Management

Within our proposal, we have included the project management of the BMS control system.

Our project manager shall be responsible for the day to day activities associated with BMS scope including, but not limited to:

- Raising requests for information and technical submittals
- Production of point lists and schedules
- Production of RAMS
- Attending coordination, planning and site meetings relevant to the survey
- Production of the BMS programme
- Management of subcontract labour

Project Schedule of Rates

Description	Quantity	Rate (£)	Total (£)
Commissioning Engineer - Normal Working Hours (Monday to Friday)	Per Hour	£	£
Project Manager - Normal Working Hours (Monday to Friday)	Per Hour	£	£
Commissioning Engineer – Normal Working Hours (Weekends)	Per Hour	£	£
Project Manager – Normal Working Hours (Weekends)	Per Hour	£	£

SSE Energy Solutions

[Redacted]
 [Redacted]
 [Redacted]
 [Redacted]
 [Redacted]
 [Redacted]
 [Redacted]

Purchase Orders

SSE Energy Solutions is a trading name for TESGL Limited; please ensure any purchase orders are still made out to:

TESGL Limited

The Registered Office of TESGL Limited is

O [Redacted]
 [Redacted]
 [Redacted]
 [Redacted]
 [Redacted]

Registered in England & Wales No. 08462158

Standard Terms and Conditions of Tender

This Tender Proposal is subject at all times to TESGL's Standard Terms and Conditions of Tender (as amended from time to time) only which can be found at: [REDACTED]

This Tender Proposal prevails over terms or conditions contained or referred to in the Customer's purchase order, confirmation of order, acceptance of a quotation or implied by practice or course of dealing, and the Customer's terms and conditions are hereby withdrawn. If required a copy of TESGL's current Standard Terms and Conditions of Tender can be emailed to the Customer upon request

SCHEDULE OF PARTICULARS Where no quantities are specified in the Tender or Schedule of Particulars it shall be deemed not to be part of the Works.

Part	Subject	Clause	Data			
I	Exclusions	6	<ol style="list-style-type: none"> Builders work, panel bases and plinths, removal and replacement of building fabric elements, and painting. Forming or cutting openings greater than 50mm. Making good surfaces to all openings including fire-stopping where required. Mechanical installation of control devices and pipeline and duct mounted equipment but SSE ES will install duct-mounted equipment for our works and pipeline measuring devices but not in the pipework. Draining down, refilling, venting and system balancing. Provision and cost of fuel and power for installation, commissioning and demonstration including all distribution to required locations. Work area lighting and temporary electrical supplies but SSE ES is responsible for task lighting. Compressed air supplies and associated equipment Removal and disposal of broken or redundant equipment and materials but SSE ES is responsible for removing their own waste to a central location for removal and disposal by others. Provision of continuous site representation. Craneage including off-loading, storage, protection, hoisting and positioning of equipment supplied by SSE ES. Provision of access equipment greater than 3.0m working platform height including all ladders, scaffolding, trestles, other access equipment. Site accommodation and storage facilities. Work being carried outside normal working hours (8am to 5pm) Monday to Friday. Provision of on-site health and welfare facilities. Provision of 'CDM Coordinator's' duties. Working with, removal and handling of asbestos related material. Removal, making good and replacement of thermal insulation. Attendance upon other parties. Any terminations. Any installations. Commissioning of any third-party equipment. Seasonal Commissioning. Support, preventative or reactive maintenance. Full-time onsite supervision. Compliance with any drawings, schedules, specification or datasheet not listed in the Tender. 			
II	Programme of Works	9	1 st Date	TBC	2 nd Date	TBC
III	Working Drawings	12	Number of Copies	NIL		
IV	Demonstration	13.4	Number of Days	00		
V	Training	14	Number of Days	00	Number of Candidates	N/A
VI	O&M Manuals	16	Number of Copies	00	Number of Weeks	TBC
VII	Fixed to	20	30 days			
VIII	Validity	32	30 days			

Confidentiality Statement

[REDACTED]

[REDACTED]

[REDACTED]

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