

Report on best value for money (BVFM) at CERN

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History

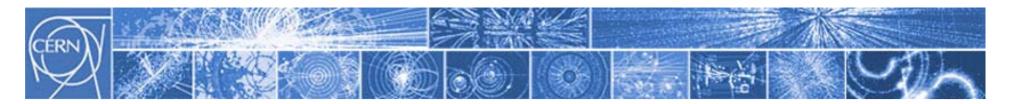
 FC agreed to the principle of BVFM for a trial period for the adjudication of Industrial Services contracts and, subject to prior FC approval, for certain supply contracts.



Summary of the procedure

- At the Market Survey stage: The document explaining the realignment is no longer attached.
- Invitation to tender
 - Adjudication criteria and their corresponding weight shall be defined as follows:

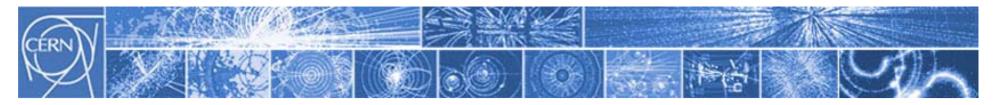
Criterion	Weight (guideline)
Price Quality (each criterion and corresponding weight is provided)	Minimum 50 Maximum 50
TOTAL	100



Scoring of quality criteria

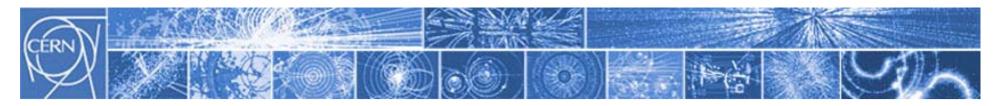
- 4 = excellent
- 3 = good
- 2 = satisfactory
- 1 = poor
- 0 = insufficient

The basis on which each criterion will be scored is defined before sending the IT by the technical responsible, his Group and Department Leader as well as the purchaser in charge as follows:



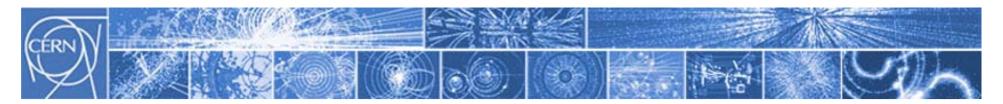
Examples of scoring (1)

Criterion		3	2		0
Organisation proposed	-1 contract manager-1 maintenance manager-1 op. manager-4 team leaders	-1 contractmanager-1 maint. and op.manager-4 team leaders	-1 contractmanager-1 maint. and op.manager-3 team leaders	-1 contract manager-1 maint. and op. manager-2 team leaders	Less than 1
QAP proposed	Excellent regarding: -Adequacy with CERN's needs -Details provided -Level of norms proposed -Quality of doc	Good regarding: -Adequacy with CERN's needs -Details provided -Level of norms proposed -Quality of doc	Satisfactory regarding: -Adequacy with CERN's needs -Details provided -Level of norms proposed -Quality of doc	Poor regarding: -Adequacy with CERN's needs -Details provided -Level of norms proposed -Quality of doc	Less than 1



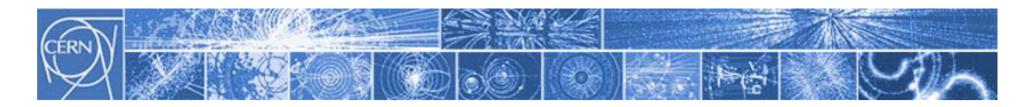
Examples of scoring (2)

Criterion	Quality score (0 to 4 points per criterion)
Technical supervisor	1 for tech. engineer in electromechanical eng. (or national equivalent) 2 for 5 years experience in the field concerned (pro rata per year) 0.5 for 5 years experience working in env. requiring cat. B workers (pro rata per year) 0.5 for 5 years experience in maintenance of the equip. concerned (pro rata per year)
Bidder's experience	2 references, max 2 points per reference: 1 point if technically relevant 0.5 if comparable in value (pro rata to value) 0.5 if terminated less than 3 years ago
Experienced personnel during shut-down	0.08 points per % above the required 50% of personnel with experience from previous shut-down
Capacity to absorb volume variations	0.X points per professional provided with a 2 weeks notice0.X points per professional provided within one month notice0.X points per professional provided within two months notice



Evaluation of offers

- Only compliant offers will be assessed by the evaluation panel which consists of:
 - technical responsible and his Group Leader
 - any technical expert appointed by the Technical Department
 - the purchaser
- After the opening of the offers, the evaluation panel meets to score the offers according to the scoring table.



BVFM adjudications (in chronological order)

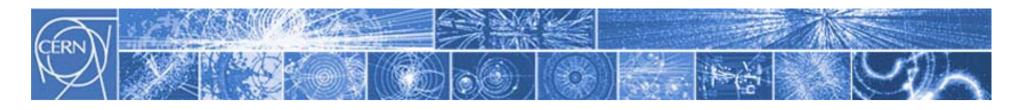
- IT-3482/TT for the provision of patents and trademarks attorney services (March 2008)
- IT-3563/DSU for the design and construction of a new travelling exhibition (June FC)
- IT-3556/TS for the provision of locksmith services (June 2008)



IT-3482/TT - Patents and trademarks attorneys

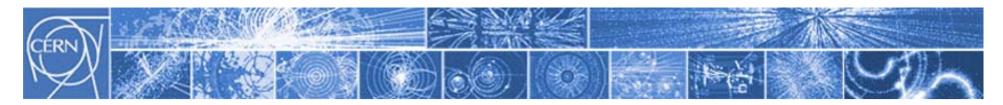
- Provision of patents and trademarks attorney services for the protection of CERN's intellectual property
- Quality criteria and weights:

Criterion	Weight
Price	50
Quality: Organisation and operating methods Experience/ references Added value services Overall quality of the offer	10 15 10 15
Total	100



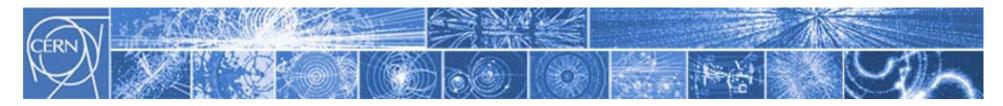
Ranking table for IT-3482/TT

	Firms	Pronovem (BE)	Boehmert & Boehmert (DE)	Cabinet Plasseraud (FR)	Kilburn Strode (GB)	Barzano & Zanardo (IT)
(a)	Quality score	131.60	150.00	163.30	173.30	123.30
(b)	Adjusted quality score: (a)/highest quality score	75.94%	86.56%	94.23%	100%	71.15%
(c)	Quality weighting	50	50	50	50	50
(d)	Weighted quality score (b)*(c)	37.97	43.28	47.11	50.00	35.57
(e)	Price for adjudication (CHF)	374,774.37	227,243.59	487,543.75	456,754.33	259,138.14
(f)	Adjusted price score: Price of the lowest offer/(e)	60.63%	100%	46.61%	49.75%	87.69%
(g)	Price weighting	50	50	50	50	50
(h)	Weighted price score (f)*(g)	30.32	50.00	23.30	24.88	43.85
(i)	Total weighted score (d) + (h)	68.29	93.28	70.42	74.88	79.42
(j)	Overall ranking	5	1	4	3	2



IT-3482/TT – Conclusions (1)

- Very satisfactory adjudication: contract adjudicated to the bidder offering the best compromise between price and quality.
 - The selected offer is the lowest and 12% lower than the offer ranked 2nd and with a better quality score than the latter.
 - The selected offer is half the price of the offer ranked first for the quality (13% difference).



IT-3482/TT – Conclusions (2)

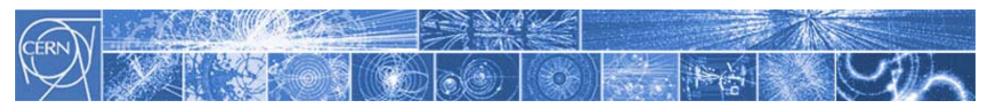
- Lesson for future ITs:
 - To assess the criterion "References" questionnaires were requested to be filled in by the bidder's clients. This was not conclusive as all of them were "good" or "excellent". Alternative: ask bidders to provide the contact name of their references and CERN contacts them directly with a predefined questionnaire.



IT-3563/DSU - Design and construction of a new travelling exhibition

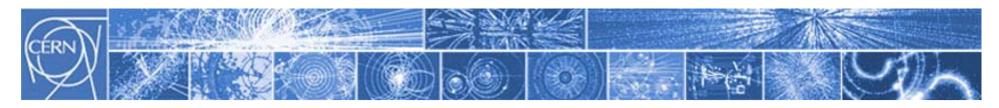
Quality criteria and weights:

Criterion	Weight
Price	50
Quality: Exhibition entrance and Cosmology section (tunnel) Proposed overall design Technical perimeter (enclosure) Physical implementation (sturdiness, modularity, language change, packaging, packaged volume and ease of installation/dismantling) General impression (previous projects, team, planning and subcontractors)	10 15 8 10
Total	100



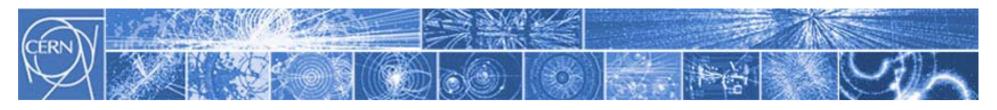
Ranking table for IT-3563/DSU

		HÜTTINGER (DE)	NORTHERN LIGHT/ BRUNS (NL)	SHELTON FLEMING (GB)
(a)	Quality score	90.75	133.25	162.00
(b)	Adjusted quality score: (a)/highest quality score	56.02 %	82.25 %	100 %
(c)	Quality weighting	50	50	50
(d)	Weighted quality score (b)*(c)	28.01	41.13	50.00
(e)	Price (CHF)	800 684.40	928 843.74	917 515.70
(f)	Adjusted price score: Price of the lowest offer/(e)	100.00 %	86.20 %	87.27 %
(g)	Price weighting	50	50	50
(h)	Weighted price score (f)*(g)	50.00	43.10	43.63
(i)	Total weighted score (d) + (h)	78.01	84.23	93.63
(j)	Overall ranking	3	2	1



IT-3563/DSU – Conclusions (1)

- Again very satisfactory adjudication:
 - Contract adjudicated to the best design, showing a good understanding of the issues to be communicated and with a good implementation (modularity, language options and ease of installation). The selected offer is 14% more expensive than the lowest offer which proposed a too simple design (mainly based on flexible panels).



IT-3563/DSU – Conclusions (2)

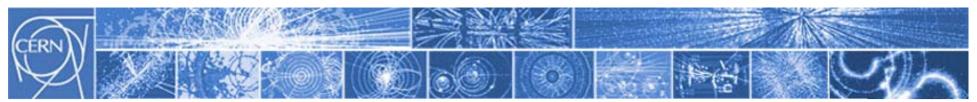
 Lesson: in order to allow bidders to submit comparable designs the financial envelope has to be provided to bidders at the tendering stage.



IT-3528/TS – Permanent exhibition of the Globe (not yet adjudicated)

Proposed quality criteria and weights

Criterion	Weight
Price	2MCHF
Quality: Integration and adaptation into Globe architecture Proposed overall design "Wow" factor Interactivity and multimedia propositions Physical implementation The company and the team, planning and timetable	23 23 23 8 8 15
Total	100



IT-3556/TS - Provision of locksmith services

Quality criteria and weights:

Criterion	Weight
Price	50
Quality: Number of hours foreseen References Quality of the offer Security	20 10 15 5
Total	100



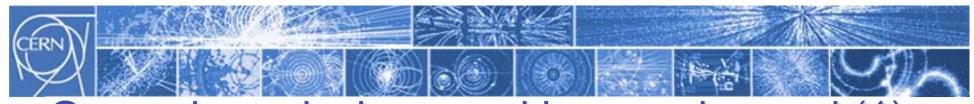
Ranking table for IT-3556/TS

	Firms	GMF	DCS	NET INTER
(a)	Quality score	110.00	110.00	105.00
(b)	Adjusted quality score: (a)/highest quality score	100.00%	100.00%	95.45%
(c)	Quality weighting	50	50	50
(d)	Weighted quality score (b)*(c)	50.00	50.00	47.73
(e)	Price (CHF)	500,212.93	608,486.00	870,300.00
(f)	Adjusted price score: Price of the lowest offer /(e)	100.00%	82.21%	57.48%
(g)	Price weighting	50	50	50
(h)	Weighted price score (f)*(g)	50.00	41.10	28.74
(i)	Total weighted score (d) + (h)	100.00	91.10	76.47
(j)	Overall ranking	1	2	3



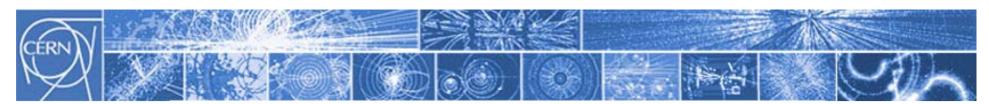
IT-3556/TS - Conclusions

- During the trial period we applied BVFM for this IT.
- Lesson for future ITs: BVFM not really needed for this type of contract (low skilled personnel required, experienced personnel not necessary) as no added value is brought.



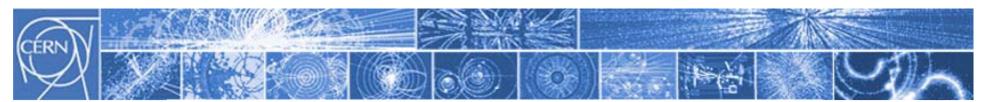
General conclusions and lessons learned (1)

- Adjudications are time consuming as all offers have to be analysed BUT CERN's needs and expectations are met:
 - Consortia only established for technical and not political reasons;
 - Contracts have been awarded to the bidder proposing the best quality at a reasonable price.
- Key issues to take into account:
 - Before launching the MS, assess the appropriateness of adjudicating a contract on a BVFM basis.
 - Importance of selecting the relevant criteria and their corresponding weights for each IT.
 - Importance of the confidentiality of the scoring table prepared before launching IT.



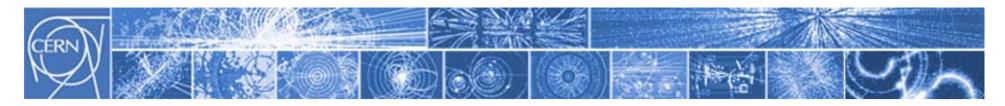
General conclusions and lessons learned (2)

- Suggested improvements to the procedure:
 - Apply the double envelope procedure systematically;
 - Assess the criterion "references" through questionnaires filled in by CERN after contacting the bidder's clients directly.



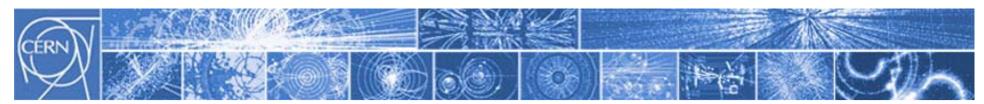
General conclusions and lessons learned(3)

- Whenever needed, invite bidders to present their technical offer before the scoring;
- Whenever a criterion cannot be scored mathematically, calculate average scores of the evaluation panel members;
- Oblige bidders to provide in the "evaluation questionnaire" sent with IT all the elements required for the evaluation of the offer.



Forthcoming adjudications

- IT-3499/IT for the provision of transport and handling services
- IT-3551/TS for the provision of civil engineering supervision services for LINAC4
- IT-3560/TS water treatment and demineralised water production



Forthcoming ITs on BVFM adjudication basis:

- Vacuum support activities
- Desktop support activities
- Maintenance of cryogenics installations
- Electrical works
- Globe permanent exhibition