BEST BIDDER CONCEPT

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ASFINAG

Company Presentation

Group of companies

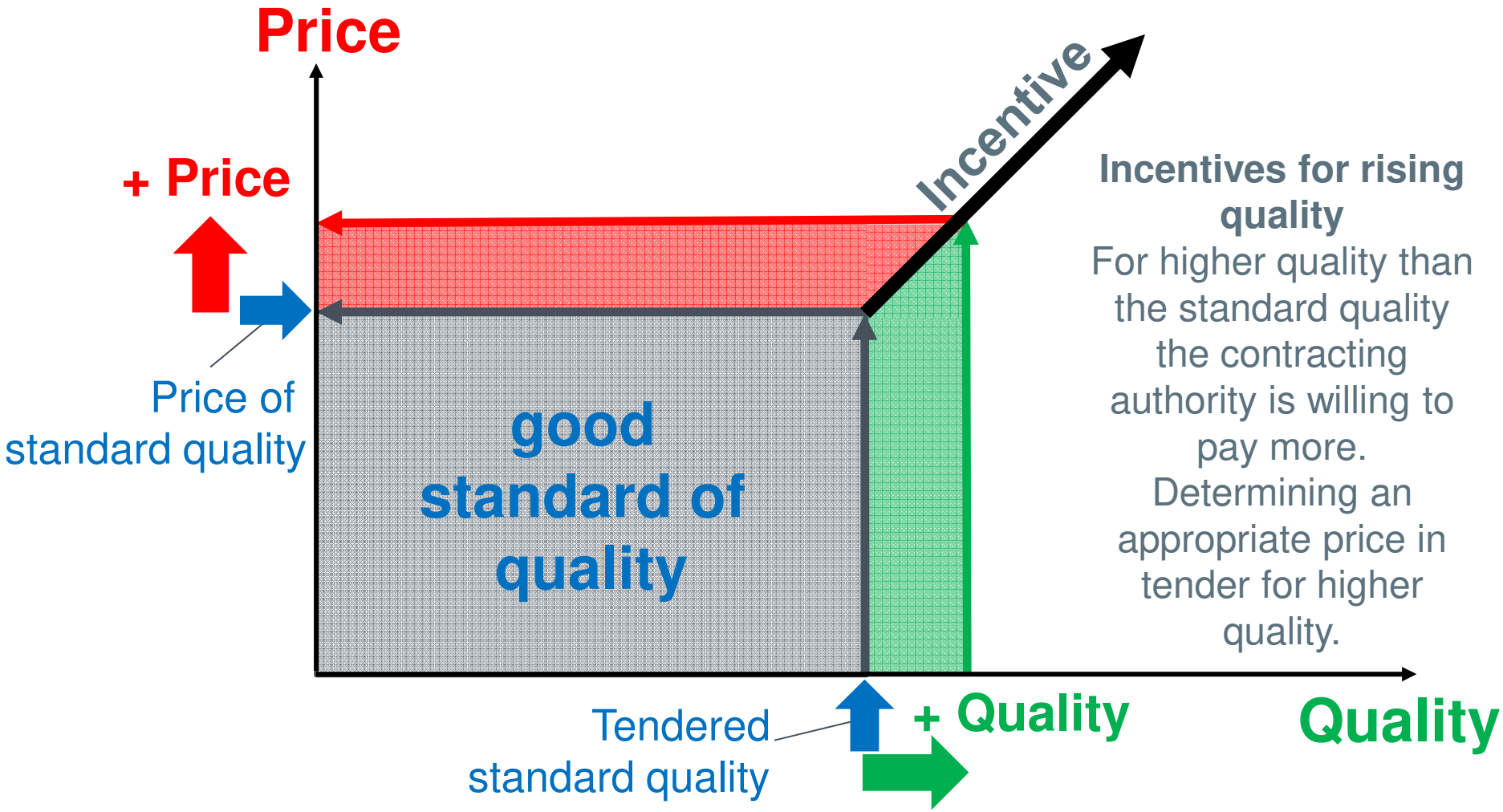
ASFINAG was established 1982 and is owned by Austrian Ministry for Transport, Innovation and Technology

Facts and figures of ASFiNAG

• **Tasks:**	Planning, construction, maintenance, operations, financing and toll charging of the motorways and expressways in Austria
• **Road network:**	operating 2.199 km
• **Number of employees**:	2.769
• **Motorway maintenance center**:	43
• **National traffic management centre**:	1
• **Monitoring centre**:	9
• **Locations**:	Vienna, Graz, Innsbruck, Salzburg, Ansfelden, Zirl
• **Financing**:	Cars < 3,5 t: Toll sticker + special tolls Lorries > 3,5 t: mileage-based toll

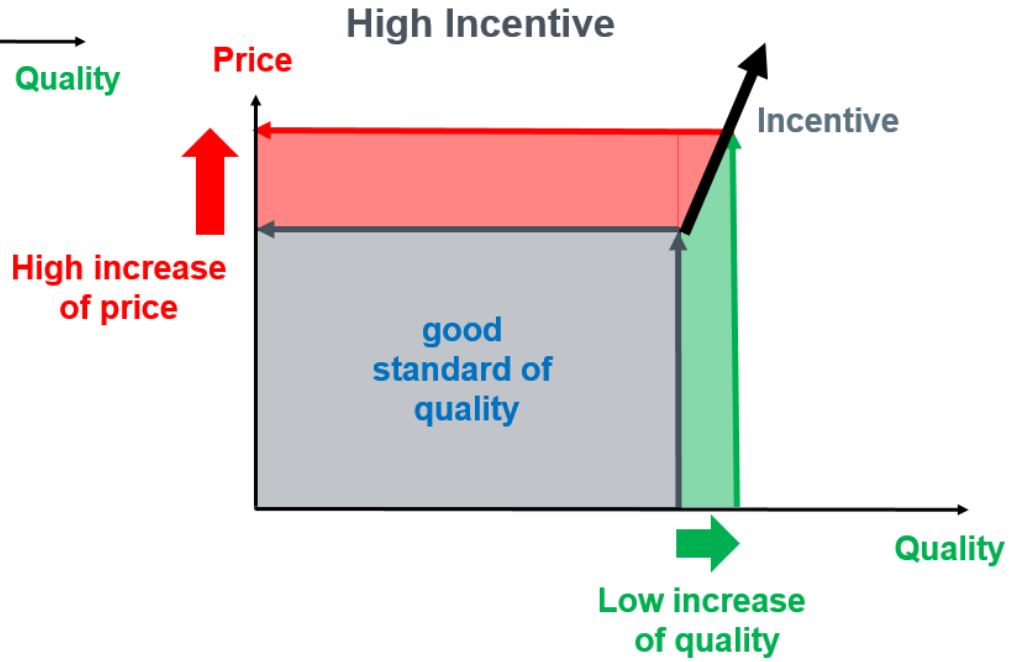
Best Bidder Concept

Basic idea
Incentive based on good quality



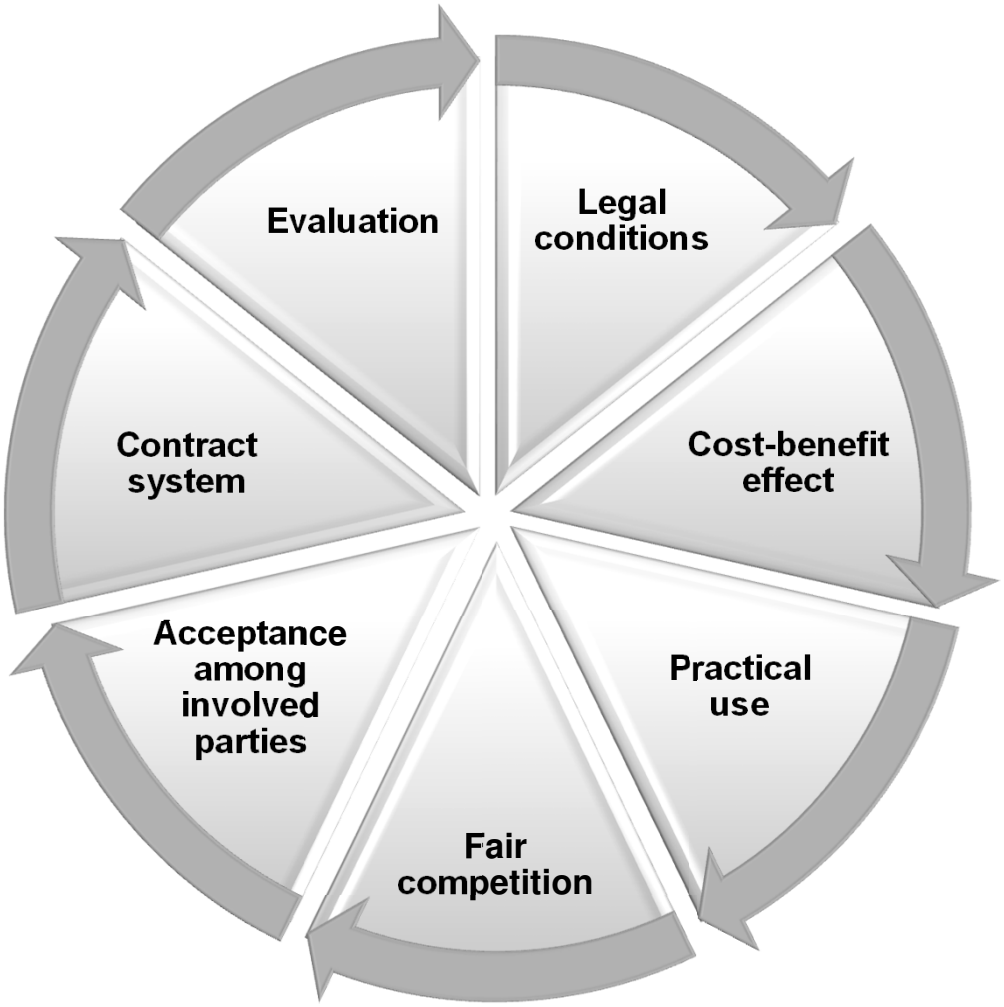
Basic idea


Low Incentive
Price
Incentive
Low increase of price
good standard of quality
Quality
High increase of quality


High Incentive
Price
Incentive
High increase of price
good standard of quality
Quality
Low increase of quality

Main influencing factors for best bidder concept

Each factor has an influence and is important for the function of a good best bidder concept



Main influencing factors

The legal conditions

Community law

- The treaty on the functioning of the European Union
- Directive 2014/23/EU, **2014/24/EU**, 2014/25/EU
- Article 28 (free movement off goods)
- Article 34 (prohibition of quantitative restrictions between member states)
- Article 56 (services)
- Article 11 (environment protection, sustainability)
- and so on…

National law

- BVergG 2006 (public procurement Act in Austria)

Main influencing factors

- Cost benefit effect (monetarisation)
  - Direct impact (e.g.: lost revenues: toll)
  - Indirect impact (e.g. increasing quality of asphalt pavement)
  - No measurable impact (environmentally and socially sustainable)
- Fair competition
  - Prevention of distortion of competition → penalty fee = 1,5 times benefit
- Contract system
  - Explicit contract rules
  - Complete description of criteria
  - Regulations for non-compliance of criteria (penalty fee)
- Practical use
  - Depending on criterion
  - Implementation and monitoring of compliance of criteria have to be clearly regulated, simple and efficient → If not, not executed

Main influencing factors

- Acceptance among involved parties
  - Acceptance among involved parties is important
  - All parties should achieve a new way of thinking
  - Experience shows that, at the beginning great scepticism about best bidder concept has been present
  - Increase of quality is not always measurable, especially for socially and environmentally sustainable criteria
- Evaluation
  - Continued evaluation of criteria is important
  - Continued evaluation of acceptance among involved parties
  - Continued evaluation of implementation on site
  - Gained Know-How shall be implemented in contract
  - Coordination with economic parties is necessary

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Implementation in Guideline Planning, Construction and Maintenance of Roads (RVS)

Overview contract award criteria RVS

In total 12 contract award criteria

Reduction of construction period which influences traffic	Reduction of necessary restriction periods (e.g. at weekends)	Increase of quality assurance	Increase of work safety
Life cycle cost	Qualifications of key personnel	Addition of excavated asphalt in asphalt mix	Reduction of environmental impact – truck transport to construction site
Reduction of daily working hours	Recycling of material and changing material-disposition	Optimization of construction process	Incentive for alternative offers

Structure of contents in RVS

1. Reasons for choosing the criterion + objectives
2. Description of the criterion + proposed text for tender
3. Scope
4. Determination of valuation range
5. Valuation of criterion for determining best bid
6. Verification of implementation of criterion during execution phase
7. Sanctions in case of non-compliance of criterion during execution phase

Reduction of construction period which influences traffic (1/2)

Ad 1: Reducing impact on costumers/traffic

Ad 2: Following information is required:

- Points for reduction (whole calendar days are counted – 12:00 am - 12:00 pm)
- Maximum of calendar days/points
- Relevant deadline for reduction (date)
- Contractual intermediate deadlines - not allowed to be postponed

Bidder is allowed to postpone all other deadlines

Reduction of construction period which influences traffic (2/2)

Ad 3: Using in every project which has an impact on traffic

Ad 4: Lost revenues (toll) or economic effects

Ad 5: Mathematical valuation of criterion

Ad 6: Joint statement if contractual deadlines are met + documentation

Ad 7: Penalty fee for postponed or cancelled deadlines

Reduction of necessary restriction periods (e.g. at weekends) (1/2)

Ad 1: Reducing impact on costumers/traffic

Ad 2: Following information is required:

- Bullet points list with planned restricted periods (whole weekend, whole night)
- Points per reduction of one restricted period (one bullet point)
- Maximum total points (all bullet points of the list)

Not possible for offering a partly reduction of one restricted period only

Reduction of necessary restriction periods (e.g. at weekends) (2/2)

Ad 3: Using in every project, in which restricted periods have an impact on traffic

Ad 4: Lost revenues (Toll) or economic effects

Ad 5: Mathematical valuation of criterion

Ad 6: Joint statement if contractual deadlines are met + documentation

Ad 7: Penalty fee for postponed or cancelled deadlines

Increase of quality assurance (1/2)

Ad 1: See above

Ad 2: Following information is required:

- List of description of measure for increasing quality assurance + provided points

  → Using a table!

- Total amount of points

Increase of quality assurance (2/2)

Ad 3: Using in every project

Ad 4: Recommended range 1%-3% of affected works

Ad 5: Mathematical valuation of criterion

Ad 6: Documented implementation of offered measures in daily progress reports

Ad 7: Penalty fee for non-compliance of offered measures

Increase of work safety (1/2)

Ad 1: See above

Ad 2: Following information is required:

- List of description of measure for increasing work safety + provided points

  → Using a table!

- Total amount of points

Increase of work safety (2/2)

Ad 3: Projects with an increased hazard for construction workers

Ad 4: Recommended range 1%-3% of affected works

Ad 5: Mathematical valuation of criterion

Ad 6: Joint documentation of implementation of offered measures

Ad 7: Penalty fee for non-compliance of offered measures

Life cycle cost (1/2)

Ad 1: Determination and valuation of life cycle cost

Ad 2: Net value method - all costs included except demolition cost

Cash Value factor for reconstruction after end of lifespan

$$BWF_{ern} = \frac{(1+i)^m}{(1+z)^m - (1+i)^m}$$

Cash Value factor for maintenance

$$BWF_{erh} = \frac{p}{z-i}$$

Cash Value factor:

$$BWF = BWF_{ern} + BWF_{erh}$$

i	factor for increase of construction costs per year
m	theoretical life-cycle
p	maintenance costs per year
z	factor for increase of net-present-value

System	m [a]	p [%]	BWF_{ern}	BWF_{erh}	BWF	LCC-Punkte
Bauteil 1: System A	xx	x	xx	xx	xx	xx
Bauteil 1: System B	xx	x	xx	xx	xx	xx
Bauteil 2: System A	xx	x	xx	xx	xx	xx
Bauteil 2: System B	xx	x	xx	xx	xx	xx

Highest BWF:
0 LCC-Points
Lowest BWF:
100 LCC-Points

Life cycle cost (2/2)

Ad 3: For construction works, where information about maintenance costs and lifespan are available

(e.g. bridge structures)

Ad 4: Balanced relation between increase of construction costs and lifespan (cost-benefit-ratio)

Ad 5: Mathematical valuation of criterion

Ad 6: Verification, if the executed system (products, construction method,..) correlates with details of tender

Ad 7: Penalty fee for discrepancy between offer and execution

Qualifications of key personnel (1/2)

Ad 1: Optimizing quality of key personnel

Ad 2: Evaluation of 3 main aspects:

- References
- Education
- Professional training

Qualifications of key personnel				**Max. points**	
Quality	References	Reference project A	Key person 1	x	x
		Reference project B	Key person 1	x	
		Reference project A	Key person 2	x	
		Reference project B	Key person 2	x	
	Education and work experience		Key person 1	x	
			Key person 2	x	
	Professional training		Key person 1	x	
			Key person 2	x	

Qualifications of key personnel (2/2)

Ad 3: Quality of project depends on qualifications of key personnel

Ad 4: Recommended range 1%-3%

Ad 5: Mathematical valuation of criterion

Ad 6: Documented presence of key personnel on site (e.g. in daily progress reports)

Ad 7: Equivalent replacement of contractor's key personnel within 21 calendar days

From the 22nd calendar day the contractor has to pay a penalty fee per day:

$$weighting[\%] \cdot \frac{\Delta\ quality\ points}{max.points} \cdot \frac{contract\ value[€\ gross\ total]}{construction\ period\ [d]} \cdot f$$

f...compensation of competitive advantages

Addition of excavated asphalt in asphalt mix (1/2)

Ad 1: Resource conversation + reduction of environmental impacts

Ad 2: Using in asphalt base layer

Addition of excavated asphalt in asphalt mix	Points
Percentage of addition ≥ 12,5 M.-% till < 17,5 M.-% (RA15)	
Percentage of addition ≥ 17,5 M.-% till < 22,5 M.-% (RA20)	

Excavated asphalt can originate from construction site itself or from stock

No additional remuneration for preparation of excavated asphalt

Addition of excavated asphalt in asphalt mix (2/2)

Ad 3: Addition of excavated asphalt is possible (technical regulations)

Ad 4: Recommended range 1%-3% of affected works

Ad 5: Mathematical valuation of criterion

Ad 6: Documentation of offered measures

Ad 7: Penalty fee for non-compliance of offered measures

Reduction of environmental impact – truck transport to construction site (1/2)

Ad 1: Reduction of impact on environment of truck transport

Ad 2: Sum of impacts on public roads calculated by transports in tonne-kilometres

Valuation of transport distance:

- Using a freely distributed utility (e.g. google maps)
- Destination: construction site
- Departure: mixing plant or production site

Comparing offered tonne-kilometres (tkm) by bidders

$$Points = Wbel \cdot \left(\frac{tkm_{BELmin}}{tkm_{BELoffer}} \right)$$

tkm_{BELmin} *Sum tkm from offer with lowest tkm*
$tkm_{BELoffer}$ *Sum tkm particular offer*
$Wbel$ *Weighting environmental impact*

Reduction of environmental impact – truck transport to construction site (2/2)

Ad 3: Avoiding discrimination of some bidders – same chances for everyone

Ad 4: Recommended range 1%-3% of affected works

Ad 5: Mathematical valuation of criterion

Ad 6: Documentation of compliance in transport distances

Ad 7: Penalty fee for non-compliance of offered measures

Reduction of daily working hours (1/2)

Ad 1: Reduction of negative impacts on residents

Ad 2: Procedure for calculating best-bidder-criterion points:

- Standard working hours: Mo-Fr 06:00am-10:00pm
- Ending working at 09:00pm (50 points)
- Ending working at 08:00pm (100 points) – maximum reduction
- Determining number of days, chosen by the bidder and when work ends at 10:00pm
- Further exceptions: necessary nightshifts and construction works at weekends

Reduction of daily working hours (2/2)

Ad 3: For projects, with a high impact on residents in morning and evening hours

Ad 4: Recommended range 1%-3%

Ad 5: Mathematical valuation of criterion

Ad 6: Verification of compliance of offered reduced daily working hours

Ad 7: Every exceeding of reduced daily working hours leads to penalty fee per hour:

$$max.\,Penalty\ fee\ per\ hour = \frac{Weighting[\%] \cdot \frac{contract\ value}{construction\ period}[€/calendar\ day]}{2[maximum\ possible\ reduction\ per\ day]}$$

Recycling of material and changing material-disposition (1/2)

Ad 1: Reduction of environmental impact

Ad 2: Valuation of additional quantity of recycling material (more than tendered)

$$Points = \frac{(m^3_{offer} - m^3_{lower\ limit}) \cdot Points_{max}}{(m^3_{upper\ limit} - m^3_{lower\ limit})}$$

m^3_{offer}	*offered quantity of recycling material*
$m^3_{lower\ limit}$	*quantity of material in tender, which has to be recycled*
$m^3_{upper\ limit}$	*maximum quantity of material in tender, which can be recycled*
$Points_{max}$	*maximum possible points for this criterion*

Recycling of material and changing material-disposition (2/2)

Ad 3: Projects with a large proportion of excavation works

Ad 4: Not necessary

Ad 5: Formula and calculation model stated in tender

Ad 6: Verification of implementation monitored by construction supervisors

Ad 7: Penalty fee for non-compliance of offered measures

Optimization of construction process (1/2)

Ad 1: Improvement of construction process or logistic, reduction of construction phase or traffic,..

Ad 2: - Bidder has the possibility to change tendered schedule with following limitations:

- fixed intermediate deadlines
- information about possibility to reschedule completion

- Technical report about optimization measures
- Valuation by examination board

Optimization of construction process (2/2)

Ad 3: Projects with complex construction process

Ad 4: Recommended range between 5% and 10%

Ad 5: Valuation based on technical report by examination board (reduction of construction phases, impacts on interfaces, environmental influences, impacts on traffic)

Ad 6: Verification of implementation monitored by construction supervisors

Ad 7: Penalty fee for non-compliance of offered measures

Incentive for alternative offers

Ad 1: Higher incentive for alternative offers → qualitatively improvement of tendered construction works

Ad 2: In tender determining evaluation procedure → considering minimum conditions in tender

Ad 3: Tender, where alternative offers are admitted

Ad 4: Recommended range between 10% and 20%

Ad 5: Valuation by examination board

Ad 6: Verification of implementation monitored by construction supervisors or construction planners

Ad 7: Penalty fee for deviations from assigned alternative offer

Best Bidder Concept ASFiNAG

Weighting of contract award criteria

- In tenders each individual criterion shall be weighted, thus an evaluation of the offers can be done.
- Weighting of criteria mainly shall be done specifically to project.
- Weighting of socially and environmentally sustainable criteria is not possible to define exactly. Therefor requirements of awarding authority/owner are needed.
- Misjudgement of weighting can lead to following results:
  - Criterion was weighted too high: every bidder will offer it
  - Criterion was weighted too low: no bidder will offer it, because incentive is too low
- To ensure a quality competition, taking care of appropriate weighting is important.

Best Bidder Concept ASFiNAG

- Since September 2015 standardized contract award criteria used for all tenders of construction works from €1,0 Mio
- At the beginning 18 contract award criteria, since 01.01.2018 29 contract award criteria + 27 sub criteria
- 2017: increasing number of social and environmentally sustainable criteria
- Percentage of quality in best bidder concept: 3%-10%

Best Bidder Concept ASFiNAG

Contract award criteria are divided in 5 categories :

Execution quality

- Increase of quality of asphalt paving, concrete paving and earthworks
- Increase numbers of skilled workers
- Warranty extension
- Qualification key personnel

Socially sustainable

- Employment of apprentices
- Employment of older workers (50+)
- Increase of work safety
- Reduction of daily working hours

Energy saving

- Reduction in energy consumptions (lighting, tunnel ventilation,...)
- System luminous efficacy

Customer benefit / residents

- Reduction of construction period
- Reduction of necessary restriction periods

Environment / sustainability

- Reduction of truck transports
- Technical features of equipment (EURO Class)
- CO2 caused by steel production

Best Bidder Concept ASFiNAG

Standard catalogue:

Reduction of construction period, which influences traffic
Reduction of necessary restriction periods
Reduction of total construction period
Reduction of daily working hours
Reduction of construction period done by shift work *(For raised traffic volume)*
Warranty extension
Extension of reversal of the burden of proof
Employment of skilled workers of construction / skilled workers of other fields (e.g. electromechanical technique)
Employment of older workers (+50)
Employment of apprentices
Increase of work safety
(Toolbox-meetings, Safety Walk, doubling of number of legal first aiders, increasing working time of health and safety officer)

Best Bidder Concept ASFiNAG

Standard catalogue:

Increase of quality of asphalt pavement *(thermally insulated dumper, controlled tipping of asphalt (trough tipper), compact asphalt method, continuous compaction control (CCC), lean construction, increasing penalty fee for not sufficient quality, long slab tracer, asphalt paving with grade line, addition of excavated asphalt, proof of professional training, increasing quality of bitumen)*

Increase of quality of concrete paving *(e.g. professional training, using concrete catalyst, using delayer for concrete)*

Increase of quality of earthworks *(Application of CCC, increased material requisition, additional check test contractor, …)*

Reduction of truck transport to construction side

Technical features of equipment *(EURO Class V and higher)*

Increase of quality of exploration

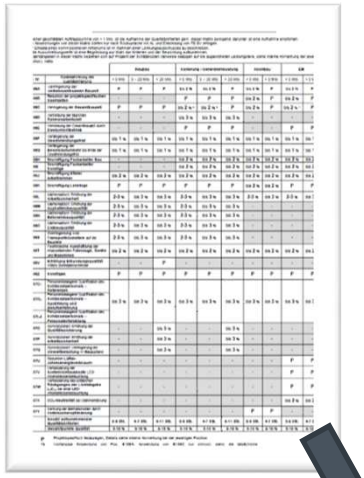
Qualification of key personnel *(Education, reference projects, work experience)*

Reductions in energy consumptions *(e.g. tunnelling)*

Reduction in operating costs

System luminous efficacy *(e.g. tunnelling)*

Internal implementation guidelines of ASFiNAG



Anwendungsmatrix Qualitätskriterien Bau

Ab einer geschätzten Auftragssumme von > 1 Mio. ist die Aufnahme der Qualitätskriterien gem. dieser Matrix zwingend; darunter ist eine Aufnahme empfohlen.
Alle Abweichungen von dieser Matrix dürfen nur nach Rücksprache mit AL und Einbindung von FB BV erfolgen.
Der Einsatz eines kommissionellen Kriteriums ist im Rahmen einer Lenkungsausschusses zu beschließen.
In die Ausschreibungsreife ist eine Begründung zur Wahl der Kriterien und der Gewichtung aufzunehmen.
Prozentangaben in dieser Matrix beziehen sich auf Prozent der Schätzkosten (teilweise bezogen auf die zugeordneten Leistungsteile, siehe interne Anmerkung der jeweiligen Position), netto.

		Neubau			Sanierung / Generalerneuerung			Hochbau		EM	
Pos. Nr.	Kurzbezeichnung des Qualitätskriteriums	< 5 Mio.	5 – 20 Mio.	> 20 Mio.	< 5 Mio.	5 – 20 Mio.	> 20 Mio.	< 5 Mio.	> 5 Mio.	< 5 Mio.	> 5 Mio.
00B106A	Verringerung der **verkehrswirksamen Bauzeit**	P	P	P	bis 2 %	bis 2 %	P	bis 2 %	P	bis 2 %	P
00B106B	Reduktion der **projektspezifischen Sperrzeiten**	-	-	-	P	P	P	bis 2 %	P	bis 2 %	P
00B106C	Verringerung der **Gesamtbauzeit**	P	P	P	bis 2 % *	bis 2 % *	P	bis 2 %	P	bis 2 % *	P
00B106D	Verkürzung der täglichen **Rahmenarbeitszeit**	-	-	-	bis 3 %	bis 3 %	bis 3 %	-	-	-	-
00B106E	Verkürzung der Gesamtbauzeit durch **Zweischichtbetrieb**	-	-	-	P	P	P	-	-	P	P
00B106F	Verlängerung der **Gewährleistungsfrist**	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %
00B106G	Verlängerung der **Beweislastumkehr** bis Ende der Gewährleistungsfrist	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %	bis 1 %
00B106H	Beschäftigung **Facharbeiter Bau**	-	-	-	bis 2 %	bis 2 %	bis 2 %	bis 2 %	bis 2 %	bis 2 %	bis 2 %
00B107Y	Senkung der Betriebskosten durch **Verbraucheroptimierung**	-	-	-	-	-	-	P	P	-	-
	Anzahl aufzunehmender Qualitätskriterien	3-6 Stk.	4-7 Stk.	6-11 Stk.	3-6 Stk.	4-7 Stk.	6-11 Stk.	3-6 Stk.	4-7 Stk.	3-6 Stk.	4-7 Stk.
	Gesamtpunkte Qualität	3-10 %	3-10 %	5-10 %	3-10 %	3-10 %	5-10 %	3-10 %	5-10 %	3-10 %	5-10 %

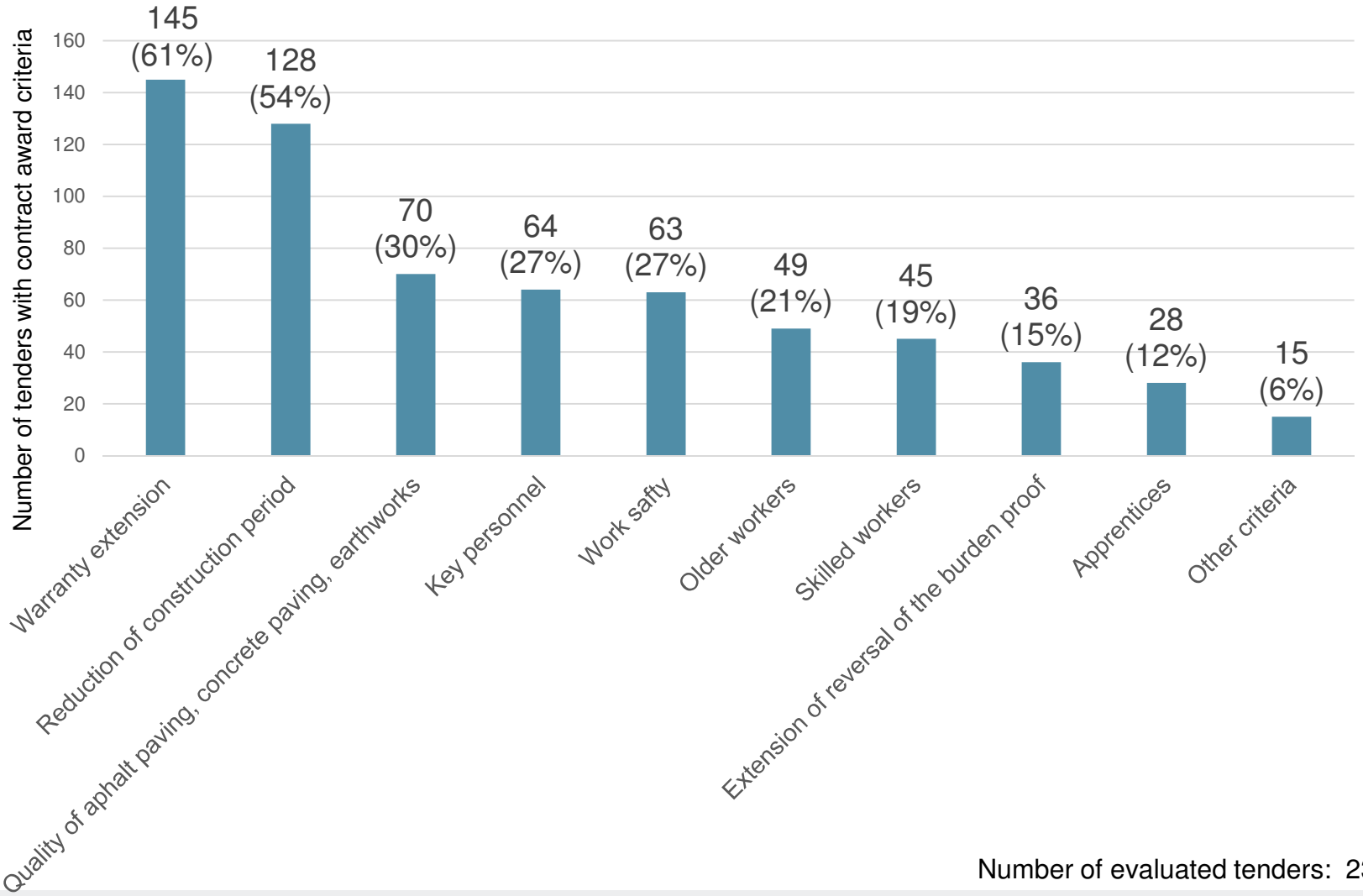
The project manager can choose freely on base of defined scope of the matrix

Evaluation of implementation: Best Bidder Concept ASFiNAG 15.9.2015 – 30.11.2017

Evaluation of implementation of best bidder concept 15.9.2015 – 30.11.2017

- Evaluation period:
  15.09.2015 – 30.11.2017
- Numbers of evaluated tenders:
  236 (225 tenders with received offers)
- Estimated cost of evaluated tenders:
  ca. net EUR 1,64 Mrd.
  (ca. net EUR 1,53 Mrd. with received offers)
- Number of evaluated offers:
  1.008

Since 09/2015 number and type of tendered contract award criteria



Number of evaluated tenders: 236 (=100%)

How often did bidder use the chance to offer tendered criteria?

Tendered contract award criteria	Received offers	Offers, which include criterion
Warranty extension	574	290 (51%)
Reduction of construction period	251	287 (58%)
Quality of asphalt paving, concrete paving, earthwork	165	124 (75%)
Work safety	214	201 (94%)
Key personnel	262	244 (93%)
Older workers	200	159 (80%)
Skilled workers	188	162 (86%)
Extension of reversal of the burden of proof	170	120 (71%)
Other criteria	105	88 (84%)
Apprentices	83	54 (65%)
Electromechanical criteria	56	37 (66%)
Technical features of equipment	14	11 (79%)
Reduction of daily working hours	9	8 (89%)
Reduction of needed restricted periods	7	3 (43%)

Ranking of contract award criteria

Ranking	Tendered by ASFiNAG [1]
1	Warranty extensions (61%)
2	Reduction of construction period (54%)
3	Quality of asphalt paving, concrete paving, earthworks (30%)
4	Work safety (27%)
5	Key personnel (27%)
6	Older workers (21%) new since 01.01.2017
7	Skilled workers (19%)
8	Extension of reversal of the burden of proof (15%) new since 01.01.2017
9	Apprentices (12%) new since 01.01.2017

[1] Percentage based on using in tenders
Base = 236 tenders

Ranking	Offered by bidder [2]
1	Work safety (94%)
2	Key personnel (93%)
3	Skilled workers (86%)
4	Older workers (80%)
5	Quality of asphalt paving, concrete paving, earthworks (75%)
6	Extension of reversal of the burden of proof (71%)
7	Apprentices (65%)
8	Reduction of construction period (58%)
9	Warranty extensions (51%)

[2] Percentage based on offers which include tendered contract award criteria

Ratio price / quality:
Impact on best bidder criteria

In the evaluation period 8 of 225 tenders were not awarded to the lowest bid, due to contract award criteria

At an awarded sum of about net EUR 1,48 Mrd. awarded contracts were EUR 1,1 Mio. more expensive due to contract award criteria.

Application example from award procedure

Ermittlung der Punkte Qualität:

Punkte Qualität = **8,00**

Diese setzen sich wie folgt zusammen:

1,00 Pkt. - Pos. 00B106A Verkürzung der verkehrswirksamen Bauzeit
1,00 Pkt. - Pos. 00B106J Beschäftigung ältere Arbeiter
1,00 Pkt. - Pos. 00B106L Erhöhung der Arbeitssicherheit - math.
2,50 Pkt. - Pos. 00B106M Erhöhung Asphalteinbauqualität
0,75 Pkt. - Pos. 00B106N Erhöhung Betoneinbauqualität
1,00 Pkt. - Pos. 00B106O Erhöhung Erdbauqualität
0,75 Pkt. - Pos. 00B106P Verlängerung Gewährleistung

Determination of valuation for best bidder criteria in tender

Ermittlung der Punkte Preis:

Die Preispunkte der Bieter errechnen sich aus folgender Formel:

Punkte Preis = (Preis des Billigstbieters / Preis des Bieters) x **92**

Application example from award procedure

POS-NR.	BEZEICHNUNG DES KRITERIUMS	ANGEBOTENE HÖHE	
00B106A	**Verkürzung der verkehrswirksamen Bauzeit**	20 Kalendertage (max. 20 KT)	
00B106J	**Beschäftigung ältere Arbeiter**	21 % (Anteil ältere Arbeitnehmer)	
00B106L	**Erhöhung der Arbeitssicherheit – math.**		
	Verdoppelung der gesetzlich geforderten Anzahl an Ersthelfern auf der Baustelle (0,50 Pkt.)	☒ JA	☐ NEIN
	Sicherheitsvertrauensperson (0,50 Pkt.)	☒ JA	☐ NEIN
00B106M	**Erhöhung der Asphalteinbauqualität**		
	Einsatz von Beschickungsfertigern (0,50 Pkt.)	☒ JA	☐ NEIN
	Asphalteinbau nach Drahtgerüst (1,00 Pkt.)	☒ JA	
	Flächenverdichtete Kontrolle beim Asphalteinbau (1,00 Pkt.)	☒ JA	☐ NEIN
00B106N	**Erhöhung der Betoneinbauqualität**		
	Herstellung integraler Brückentragwerke bei bestimmten mittleren Tagestemperaturen (0,75 Pkt.)	☒ JA	☐ NEIN
00B106O	**Erhöhung der Erdbauqualität**		
	Durchführung zusätzlicher Kontrollprüfungen durch den AN (0,50 Pkt.)	☒ JA	☐ NEIN
	Durchgängiger Einsatz einer dynamischen Fallplatte durch den AN (0,50 Pkt.)	☒ JA	☐ NEIN
00B106P	**Verlängerung Gewährleistung**	Ø Jahre (max. 3 J.)	

Self-declaration of bidder in offer

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