DRAFT: Submittal and RFI screening report: PILOT-000

DRAFT for review by your engineer. Not reviewed by SuRFIcE. Do not rely on any row until your engineer has checked it against the source pages. SuRFIcE does not approve or reject work.

Summary

Checks: 20. Needs action: 9 of 20.
DEVIATION: 2 | MISSING: 5 | UNCLEAR: 2 | COMPLIANT: 11
Report date: 2026-11-08. Engine: constrodek cd85934 (2026-11-08).
Your engineer's decision: click AGREE, DISAGREE, NOT SURE or PENDING on each row, add a comment (a reason is required for DISAGREE), save this PDF and put it in your shared folder. A PDF viewer that cannot fill forms? Use the feedback form (xlsx) instead.

What the statuses mean

Status	Meaning	Next step
DEVIATION	The submitted value does not meet the requirement.	Contractor to revise or justify; engineer decides.
MISSING	No submitted value was found for this requirement.	Contractor to submit the value or evidence.
UNCLEAR	The tool could not judge it safely (unit, standard or wording).	Engineer to check the source pages.
COMPLIANT	The submitted value meets the requirement.	None.

Findings (items needing action first)

Status	Submittal	Section	Check	Required	Proposed	Requirement source	Next step	Spec p.	Sub. p.	Your engineer's decision
DEVIATION	SUB-101	03 30 00	grade	M25 (IS 456)	M30 (IS 456)	Spec BOQ 3.1	Contractor to revise or justify; engineer decides.	1	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: M25 (spec p. 1). Proposed: M30 (submittal p. 1). The submitted value does not meet the rule, so DEVIATION.										
DEVIATION	SUB-101	03 30 00	water cement ratio	0.45	0.48	Spec 2.2	Contractor to revise or justify; engineer decides.	1	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: at most 0.45 (spec p. 1). Proposed: 0.48 (submittal p. 1). The submitted value does not meet the rule, so DEVIATION.										

Status	Submittal	Section	Check	Required	Proposed	Requirement source	Next step	Spec p.	Sub. p.	Your engineer's decision
MISSING	SUB-102	03 30 00	grade	M25 (IS 456)	none submitted	Spec BOQ 3.1	Contractor to submit the value or evidence.	1	not given	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: M25 (spec p. 1). Proposed: no value found in the submittal. Nothing to compare, so MISSING. Not treated as a pass.										
MISSING	SUB-102	03 30 00	grade	M30 (IS 456)	none submitted	Spec 2.1	Contractor to submit the value or evidence.	1	not given	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: M30 (spec p. 1). Proposed: no value found in the submittal. Nothing to compare, so MISSING. Not treated as a pass.										
MISSING	SUB-102	03 30 00	slump	75 mm to 100 mm	none submitted	Spec 2.4	Contractor to submit the value or evidence.	1	not given	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: between 75 mm and 100 mm (spec p. 1). Proposed: no value found in the submittal. Nothing to compare, so MISSING. Not treated as a pass.										
MISSING	SUB-101	03 30 00	cover thickness	50 mm	none submitted	Spec 3.2	Contractor to submit the value or evidence.	1	not given	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: at least 50 mm (spec p. 1). Proposed: no value found in the submittal. Nothing to compare, so MISSING. Not treated as a pass.										
MISSING	SUB-103	03 20 00	yield strength	500 MPa	none submitted	Spec 2.3	Contractor to submit the value or evidence.	2	not given	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: at least 500 MPa (spec p. 2). Proposed: no value found in the submittal. Nothing to compare, so MISSING. Not treated as a pass.										
UNCLEAR	SUB-102	03 30 00	cement content	320 kg/m3	600 lb/yd3	Spec 2.3	Engineer to check the source pages.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: at least 320 kg/m3 (spec p. 1). Proposed: 600 lb/yd3 (submittal p. 1). The values could not be compared safely (unit, format or wording). So UNCLEAR. Never passed automatically. Your engineer decides.										

Status	Submittal	Section	Check	Required	Proposed	Requirement source	Next step	Spec p.	Sub. p.	Your engineer's decision
UNCLEAR	SUB-102	03 30 00	compressive strength	30 MPa (IS 516)	4,500 psi (ASTM C39)	Spec 4.2	Engineer to check the source pages.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: at least 30 MPa (spec p. 1). Proposed: 4,500 psi (submittal p. 1). The values agree, but the submittal cites ASTM C39 where IS 516 is required. So UNCLEAR. Never passed automatically. Your engineer decides.										
COMPLIANT	SUB-103	03 20 00	grade	Fe 500D (IS 1786)	Fe 500D (IS 1786)	Spec BOQ 3.2	None.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: Fe 500D (spec p. 1). Proposed: Fe 500D (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	MTC heat 5521 reinforcement.pdf	03 20 00	grade	Fe 500D (IS 1786)	Fe 500D (IS 1786)	Spec BOQ 3.2	None.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: Fe 500D (spec p. 1). Proposed: Fe 500D (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	SUB-101	03 30 00	grade	M30 (IS 456)	M30 (IS 456)	Spec 2.1	None.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: M30 (spec p. 1). Proposed: M30 (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	SUB-102	03 30 00	water cement ratio	0.45	0.40	Spec 2.2	None.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: at most 0.45 (spec p. 1). Proposed: 0.40 (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	SUB-101	03 30 00	cement content	320 kg/m3	380 kg/m3	Spec 2.3	None.	1	1	○ AGREE ○ DISAGREE ○ NOT SURE ○ PENDING
Why: Required: at least 320 kg/m3 (spec p. 1). Proposed: 380 kg/m3 (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										

Status	Submittal	Section	Check	Required	Proposed	Requirement source	Next step	Spec p.	Sub. p.	Your engineer's decision
COMPLIANT	SUB-101	03 30 00	slump	75 mm to 100 mm	90 mm	Spec 2.4	None.	1	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: between 75 mm and 100 mm (spec p. 1). Proposed: 90 mm (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	SUB-102	03 30 00	cover thickness	50 mm	2 in	Spec 3.2	None.	1	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: at least 50 mm (spec p. 1). Proposed: 2 in (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	SUB-101	03 30 00	compressive strength	30 MPa (IS 516)	38.5 MPa (IS 516)	Spec 4.2	None.	1	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: at least 30 MPa (spec p. 1). Proposed: 38.5 MPa (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	SUB-103	03 20 00	grade	Fe 500D (IS 1786)	Fe 500D (IS 1786)	Spec 2.1	None.	2	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: Fe 500D (spec p. 2). Proposed: Fe 500D (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	MTC heat 5521 reinforcement.pdf	03 20 00	grade	Fe 500D (IS 1786)	Fe 500D (IS 1786)	Spec 2.1	None.	2	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: Fe 500D (spec p. 2). Proposed: Fe 500D (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										
COMPLIANT	MTC heat 5521 reinforcement.pdf	03 20 00	yield strength	500 MPa	552 MPa	Spec 2.3	None.	2	1	AGREE DISAGREE NOT SURE PENDING
Why: Required: at least 500 MPa (spec p. 2). Proposed: 552 MPa (submittal p. 1). The submitted value meets the rule, so COMPLIANT. Still a DRAFT: your engineer confirms.										

Source extracts

Quoted word for word from the masked extracts of the documents (names and prices stay masked). The cited value is highlighted. Click a row under "Back to the row" to return to it.

BOQ Division 03.xlsx · page 1 · paragraph BOQ 3.1
Item | Description | Unit | Rate
3.1 | **M25** grade concrete to IS 456 in ground-bearing floor slab | cum | XXXX
3.2 | Fe 500D reinforcement to IS 1786, cut, bent and placed | MT | XXXX
Back to the row: SUB-101 · grade, SUB-102 · grade

SUB-101 Rev 0 Floor slab concrete mix design M30.pdf · page 1
Submitted by: Contractor (fictional). Cites specification Rev A, section 03 30 00.
Proposed grade: **M30** to IS 456
Water-cement ratio: 0.48
Back to the row: SUB-101 · grade, SUB-101 · grade

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 1 · paragraph 2.2
2.1 Concrete for ground-bearing floor slabs and machine foundations shall be grade M30 to IS 456.
2.2 Maximum water-cement ratio: **0.45**.
2.3 Minimum cementitious content: 320 kg/m3.
Back to the row: SUB-101 · water cement ratio, SUB-102 · water cement ratio

SUB-101 Rev 0 Floor slab concrete mix design M30.pdf · page 1
Proposed grade: M30 to IS 456
Water-cement ratio: **0.48**
Cementitious content: 380 kg/m3
Back to the row: SUB-101 · water cement ratio

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 1 · paragraph 2.1
SECTION 03 30 00 CAST-IN-PLACE CONCRETE
2.1 Concrete for ground-bearing floor slabs and machine foundations shall be grade **M30** to IS 456.
2.2 Maximum water-cement ratio: 0.45.
Back to the row: SUB-102 · grade, SUB-101 · grade

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 1 · paragraph 2.4
2.3 Minimum cementitious content: 320 kg/m3.
2.4 Slump at placing: **75 mm to 100 mm**.
3.2 Nominal cover to reinforcement in machine foundations: 50 mm minimum.
Back to the row: SUB-102 · slump, SUB-101 · slump

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 1 · paragraph 3.2
2.4 Slump at placing: 75 mm to 100 mm.
3.2 Nominal cover to reinforcement in machine foundations: **50 mm** minimum.
4.2 Characteristic compressive strength at 28 days: at least 30 MPa on 150 mm cubes to IS 516.
Back to the row: SUB-101 · cover thickness, SUB-102 · cover thickness

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 2 · paragraph 2.3
2.1 Reinforcement shall be high strength deformed bars, grade Fe 500D to IS 1786.
2.3 Minimum yield stress: **500 MPa**.
2.4 Each consignment shall carry the manufacturer's mill test certificate.
Back to the row: SUB-103 · yield strength, MTC heat 5521 reinforcement.pdf · yield strength

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 1 · paragraph 2.3
2.2 Maximum water-cement ratio: 0.45.
2.3 Minimum cementitious content: **320 kg/m3**.
2.4 Slump at placing: 75 mm to 100 mm.
Back to the row: SUB-102 · cement content, SUB-101 · cement content

SUB-102 Rev 0 Machine foundation concrete (EPC vendor data).pdf · page 1
Water-cement ratio: 0.40
Cementitious content: **600 lb/yd3**
Concrete cover to reinforcement: 2 in
Back to the row: SUB-102 · cement content

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 1 · paragraph 4.2
3.2 Nominal cover to reinforcement in machine foundations: 50 mm minimum.
4.2 Characteristic compressive strength at 28 days: at least **30 MPa** on 150 mm cubes to IS 516.
Page 1 of 2 | SYNTHETIC DEMO DOCUMENT - fictional project, all names and values invented - not a real record
Back to the row: SUB-102 · compressive strength, SUB-101 · compressive strength

SUB-102 Rev 0 Machine foundation concrete (EPC vendor data).pdf · page 1
Concrete cover to reinforcement: 2 in
Specified compressive strength: **4,500 psi** at 28 days on cylinders to ASTM C39
Grade designation and slump: not stated by the vendor.
Back to the row: SUB-102 · compressive strength

BOQ Division 03.xlsx · page 1 · paragraph BOQ 3.2
3.1 | M25 grade concrete to IS 456 in ground-bearing floor slab | cum | XXXX
3.2 | **Fe 500D** reinforcement to IS 1786, cut, bent and placed | MT | XXXX
Back to the row: SUB-103 · grade, MTC heat 5521 reinforcement.pdf · grade

SUB-103 Rev 0 Reinforcement bars Fe 500D.pdf · page 1
Submitted by: Contractor (fictional). Cites specification Rev A, section 03 20 00.
Proposed grade: **Fe 500D** to IS 1786
Bar sizes: 10, 12 and 16 mm. Mill test certificates follow with each consignment.
Back to the row: SUB-103 · grade, SUB-103 · grade

MTC heat 5521 reinforcement.pdf · page 1
Manufacturer's mill test certificate. Consignment for SUB-103. Heat number 5521.
Grade: **Fe 500D** to IS 1786
Yield stress: 552 MPa
Back to the row: MTC heat 5521 reinforcement.pdf · grade, MTC heat 5521 reinforcement.pdf · grade

SUB-102 Rev 0 Machine foundation concrete (EPC vendor data).pdf · page 1
Submitted by: Contractor for its EPC equipment vendor (fictional). Cites specification Rev A.
Water-cement ratio: **0.40**
Cementitious content: 600 lb/yd3
Back to the row: SUB-102 · water cement ratio

SUB-101 Rev 0 Floor slab concrete mix design M30.pdf · page 1
Water-cement ratio: 0.48
Cementitious content: **380 kg/m3**
Slump at placing: 90 mm
Back to the row: SUB-101 · cement content

SUB-101 Rev 0 Floor slab concrete mix design M30.pdf · page 1
Cementitious content: 380 kg/m3
Slump at placing: **90 mm**
28-day trial mean strength: 38.5 MPa on 150 mm cubes to IS 516
Back to the row: SUB-101 · slump

SUB-102 Rev 0 Machine foundation concrete (EPC vendor data).pdf · page 1
Cementitious content: 600 lb/yd3
Concrete cover to reinforcement: **2 in**
Specified compressive strength: 4,500 psi at 28 days on cylinders to ASTM C39
Back to the row: SUB-102 · cover thickness

SUB-101 Rev 0 Floor slab concrete mix design M30.pdf · page 1
Slump at placing: 90 mm
28-day trial mean strength: **38.5 MPa** on 150 mm cubes to IS 516
Page 1 of 1 | SYNTHETIC DEMO DOCUMENT - fictional project, all names and values invented - not a real record
Back to the row: SUB-101 · compressive strength

Specification 03 30 00 and 03 20 00 Rev A.pdf · page 2 · paragraph 2.1
SECTION 03 20 00 CONCRETE REINFORCING
2.1 Reinforcement shall be high strength deformed bars, grade **Fe 500D** to IS 1786.
2.3 Minimum yield stress: 500 MPa.
Back to the row: SUB-103 · grade, MTC heat 5521 reinforcement.pdf · grade

MTC heat 5521 reinforcement.pdf · page 1
Grade: Fe 500D to IS 1786
Yield stress: **552 MPa**
Tensile strength: 641 MPa. Elongation: 18.5 %. (not required by this specification; not screened)
Back to the row: MTC heat 5521 reinforcement.pdf · yield strength

Automated screening aid. Not a substitute for engineering review.