

OFFICE OF THE CHIEF ENGINEER PWD RAJASTHAN JAIPUR

No: *ACC(P)SE-TEC/2025-26/D-360*

Date: 19/01/26

Addl. Chief Engineer
Zone All
PWD Rajasthan

Superintending Engineer
Circle All
PWD Rajasthan

Executive Engineer
Division All
PWD Rajasthan

Subject: Special Conditions along with RPWA-100 for Road Works.

As per the subject cited above, the Special Conditions (encl.) are to be enclosed along with RPWA-100 for tender document of concerned road works.

These special conditions are approved from the competent authority.

Encl: As above.

(T. C. Gupta)
Chief Engineer & Addl.
Secretary, PWD, Rajasthan

No: *ACC(P)SE-TEC/2025-26/D-360*

Date: 19/01/26

Copy forwarded to the following for information & necessary action please.

1. Chief Engineer (PMGSY/ Road/ Bridge/ CRIF/ SS/ QC/ NH/ Building), PWD Rajasthan
2. Financial Advisor, PWD, Rajasthan

(T. C. Gupta)
Chief Engineer & Addl.
Secretary, PWD, Rajasthan

Validity unknown

Digitally signed by Tara Chand Gupta
Designation : Chief Engineer
Date: 2026.01.16 12:24 IST
Reason: Approved

RajKaj Ref No.:
19956489
eSign 1.0



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Tech
19/01/26
Dated
for necessary compliance
19/1

NO. 3601

Copy Forwarded to the Following for Information and Necessary Action & Compliance
The Superintending Engineer
P.W.D. Circle *Kota*
E.P.W.D. Dn.

19/01/26
for necessary compliance of above the directions..
Addl. Chief Engineer
P.W.D. Zone KOTA

for necessary compliance of above the directions..

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Special Conditions of Contract (Road Works)

Name of work:

The following special conditions of contract for the road work shall be applicable in addition to General Condition of contract as mentioned in RPWA-100 and Standard Bid Document (SBD). The contractor shall execute the work in accordance with the requirements specified in the agreement, applicable specifications and standards.

1. Compliance with Specifications

The contractor shall comply with the Specifications & Standards set forth in the *MORTH Specifications for Road and Bridge Works – 2013 (5th Revision)*/ *MORD specifications as applicable*, along with the latest addendum. All materials, works, and construction operations shall conform to various Manuals, Specifications, and Standards prescribed by MORTH/ MORD and IRC.

If the specification for any work is not provided, Good Industry Practices shall be adopted to the satisfaction of the Engineer-in-Charge.

In case of any ambiguity or discrepancies in conditions or specifications the same shall be adopted as per direction of Engineer-in-Charge.

2. Pre-Construction Requirements

Before the commencement of work, the contractor shall establish a Citizen Information Board displaying: -- Project details as - Name of work, - Sanction amount, - Start and completion dates, Name of Agency with contact details, and Department details (such as Name of division and contact details), or as per the directions of the Engineer-in-Charge.

The contractor shall ensure proper traffic diversion and traffic management during construction with temporary traffic control, work-zone safety measures, and the management of traffic flow during construction as per IRC: SP-55.

2.1. Site Office Requirements

The contractor shall establish a well-furnished site office at identified works site (work order amount costing more than 150 lacs) with adequate facilities of computer, printer, internet connection, and necessary staff & furniture in adequate manner during the entire project completion period. The establishment of the site office with staff and its maintenance shall be considered incidental to the work, and no extra payment shall be made separately. The list of furniture for the site office shall be as under:

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S. No.	Articles	Quantity of Furniture (Min.)	
		For Works Costing 1.5 Cr to 3 Cr (W.O. Amount)	For Works Costing \geq 3 Cr (W.O. Amount)
1.	Executive table(wooden)with side racks	01 No.	2Nos.
2.	Executive Chair	01 No.	2Nos.
3.	Office Chairs	04 Nos.	6 Nos.
4.	Almirah	01 No.	2Nos.
5.	Well maintained toilet facility for male and female separately.		

3. Setting out Work

The Contractor shall establish proper setting out work by constructing well finished & stable Reference Bench marks (0.60 m*0.60 m*1.0 m) @ minimum 4 Nos. / km and Reference burjis/ pillars (0.35 m*0.35 m*1.0 m) at every 200 m spacing on both sides of the road, indicating all necessary survey details of all important activities such as Earth Work, GSB, Base Course, Binder Base, and Bituminous/Concrete Wearing Course, or as directed by the Engineer-in-Charge. This work shall be considered as incidental to work, and no separate payment shall be made. The Contractor shall be solely responsible for safeguarding all survey monuments till completion of work.

4. Survey Work and Structural Drawings

The Contractor shall execute survey work before and after the execution of each stage of construction work with latest technology survey equipment like DGPS machine or any other approved level instrument. For works with work order amount costing more than 20.00 Crore, the Contractor shall also execute arial survey (Drone Survey) before and after the execution of work with latest technology survey equipment.

The Contractor shall submit all relevant working drawings for approval to the Engineer-in-Charge. Structural design of cross drainage structures, minor bridges, box cell structures, and other required structures shall be submitted by the Contractor, duly validated from reputed Engineering colleges (IITs/MNIT/BITS Pilani or equivalent), for approval to the Engineer-in-Charge. The Contractor shall take prior approval from the Technical Sanctioning Authority in writing before executing any activity.

5. Quality Assurance, Monitoring and Supervision

5.1 Quality of Material and Workmanship

The Contractor shall ensure that the construction, material, and workmanship are in accordance with the requirements specified in Agreement, Specifications & Standards, and Good Industry Practice.

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5.2 Quality Control System

The Contractor shall establish a well-furnished Quality Control field Laboratory at identified works site (work order amount costing more than 150 lacs), having all required QC equipment. In this regard, compliance of CE&AS office order no. CE (QC)/SE (QC)/2025-26/QC Lab/D-765 Dated 07.10.2025 shall be ensured.

He shall ensure that all the testing of materials/aggregate etc. is being done regularly and as per frequency prescribed in Quality Control norms. All testing machines shall be duly calibrated at required frequency.

For any reason, if the testing is not possible in the site laboratory, PWD QC Laboratory or Engineer-in-Charge considers testing to be conducted outside PWD, the testing so required shall be done at contractors cost only from reputed Engineering colleges or NABL accredited laboratory after obtaining NOC in writing from the competent authority.

The Contractor shall maintain record of Quality control tests. A quality control register should also be maintained at the laboratory in chronological order. The record of Quality control shall be handed over to the Engineer-in-Charge in original copies with other relevant documents before the issuance of completion certificate or whenever it is required by the Engineer-in-Charge.

Contractor shall depute following technical staff in the Laboratory:-

S. No.	Staff	Nos. (Min.)
1.	Material Engineer	01 No.
2.	Lab Operator	01 No.
3.	Lab Assistance	02Nos.

For works costing (amount put to tender) more than ₹10.00 crore , the Contractor shall establish a Quality Control mechanism in addition to the above conditions to ensure compliance with the provisions of Agreement. The Contractor shall, submit to the Engineer-in-Charge its **Quality Assurance Plan (QAP)** within **14 (fourteen) days** from the issue of Work Order, which shall include the following:

- Organization, duties and responsibilities, procedure, inspection and documentation.
- Quality Control mechanism including sampling and testing of material, test frequencies, standards, testing facility, reporting, approvals, checklist for site activities, and proforma for testing and calibration in accordance with MORTH specifications for road and bridge works, relevant IRC specifications

The Contractor shall obtain approval of QAP after any due modification, if any, required within 03 (three) days; and comply with the approved QAP during the entire period of work agreement. The Contractor shall procure all documents, apparatus and instruments, fuel, consumables, water, Electricity, labour, materials, samples and qualified personnel as are necessary for examining and testing the projects Assets and workmanship in accordance with the QAP. The cost of testing of construction, Materials and Workmanship shall be borne by the contractor as directed by the Engineer-in-charge.

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5.3 Methodology & Construction Programme

The Contractor shall, at least **07 (seven) days** prior to the commencement of construction, submit to the Engineer-in-Charge for review the methodology to be adopted in executing the works, construction program, details of equipment to be deployed, traffic management, and measures for ensuring safety. The Engineer-in-Charge shall convey its comments if any to the Contractor within a period of **03 (three) days** from the date of receipt of the proposed methodology and construction programme from the Contractor.

The Contractor shall obtain final approval from the Engineer-in-Charge at least prior to the commencement of construction and ensure its adoption at site. The Contractor shall submit a revised construction programme and obtain its approval, if any, required on **every 7th** of the next month.

5.4 Photography & Videography Recording

The Contractor shall provide videography and geo-tagged photography of different stages of work, i.e., prior to start of construction, during construction, and after completion of work to the Engineer-in-Charge. During the construction period, the Contractor shall provide to the Engineer-in-Charge, for every calendar quarter, video recording and photography. The video recording shall be provided to the Engineer-in-Charge no-later than **15 (fifteen) days** after the close of each quarter after start of work.

5.5 Examination of Work Before Covering Up

The Engineer-in-Charge or his representative shall be entitled to examine, inspect, measure and/or test before it is covered up or put out of view. Whenever any part of the work is placed thereon, the Contractor shall give intimation to the Engineer-in-Charge at least **03 (three) business days** prior whenever any such work is ready and before it is covered up. No further work shall be taken up without prior approval of the Engineer-in-Charge.

5.6 Remedial Work

d) If any deficiency is observed in the work, the Engineer-in-Charge shall issue Non-Conforming Report (NCR) to the Contractor. After receiving NCR, the contractor shall submit Action Taken Report (ATR) with all due rectification and compliance from competent authority within **15 days** of issuance of NCR. Work shall not be considered finalized without clearance of ATR.

5.7 Road Roughness

The Contractor shall arrange to conduct Roughness test of the road section by Roughometer as per the direction of the Engineer-in-Charge prior to finalization of work. Road roughness test shall be mandatory for all Roads works with work costing more than 10.00 Cr (A&Fs). The surface evenness of the final surface of the work shall comply as per IRC: SP: 16 or as specified.

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6. Measurement

Measurement of each construction activity shall be made as per MORTH/ MORD specifications as per applicability and for Structures Standard Mode of Measurement IS: SP: 27/IS 1200 (all parts) shall be followed unless otherwise specified.

7. Construction

7.1. Concrete Pavement Work

- a) Cement Concrete Pavement and Dry Lean Concrete (DLC) work shall be executed as per IRC: 15, IRC: 58, and MORTH Specifications for Road & Bridge Work (5th Revision) shall be followed. Dry Lean Concrete (DLC) shall be executed as per IRC: SP: 49 – 2014. Minimum grade of concrete for PQC shall be as per flexural strength 4.5 MPa when MORTH specification is followed.
- b) Design mix of higher-grade concrete shall be ensured as per IRC: 44 and IS: 10262. The contractor shall intimate details of all materials likely to be used, specifying their source for all important materials i.e. Coarse Aggregate, Fine Aggregate, Cement, Admixture etc. and type construction method to be adopted. The Contractor shall, at least **21 (twenty-one) days** prior to the commencement of DLC and PQC work, submit the design mix to the Engineer-in-Charge for approval.
- c) The Contractor shall obtain the design mix from PWD Laboratories, Rajasthan, or from reputed Engineering colleges (IITs/MNIT/BITS Pilani or equivalent), any NABL accredited laboratory duly approved by the department, after obtaining NOC in writing from the competent authority.
- d) The Contractor shall start work only after the approval of the design mix from the Engineer-in-Charge. The Contractor shall provide a core-cutting machine as and when directed by the Engineer-in-Charge. Payment of DLC and PQC work shall be made only after ensuring proper quality and desired specified strength are achieved.
- e) For use of M-sand, compliance of Chief Secretary Circular No. Pa. 14 (10) Khan/Group-2/2018 part dated 16.03.2021 and M-Sand policy 2024 shall be done.
- f) The curing of C.C. Work has to be done in accordance to the IRC-15, IRC-58 and IRC-62-2014. No traffic shall be allowed during curing period. Traffic diversion will have to be arranged by the contractor himself at his own cost.
- g) The cutting of joint shall be done immediately and suitable joint sealing compound confirming to IS: 1834 shall be applied on the cleaned joints.
- h) Mixing of concrete shall be done by Batch Mix Plant (digitally controlled).

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7.2. Bituminous Work

- a) The proper testing of bitumen should be carried out before it is used and a record of the same shall be maintained. In addition to bitumen testing facility at site, the Contractor shall also arrange to test Bitumen samples from PWD Central/ Regional/District Laboratories, Rajasthan. In this regard circular issued by the CE & AS PWD Rajasthan Jaipur vide no. CE (QC)/SE (QC)/2023-24/IOC-11162/D-123 dated 15.06.23 is applicable. Contractor shall maintain record of bitumen procurement and keep all purchase consignment/ vouchers duly verified and signed by contractor. Consumption statement duly signed by contractor for bitumen used shall be submitted with the running bills.
- b) Design mix of higher specification Bituminous works (like BM, DBM, BC etc.) shall be ensured as per MoRTH specification, IRC 111, IRC: SP: 135 and other relevant references. The contractor shall intimate details of all materials likely to be used, specifying their source of all important materials i.e. Coarse Aggregate, Fine Aggregate, Bitumen, Mineral filler, etc. and type construction method to be adopted. The Contractor shall submit the design mix to the Engineer-in-Charge for approval, at least **21 (twenty-one) days** prior to the commencement of Bituminous work.
- c) The Contractor shall obtain the design mix from PWD Laboratories, Rajasthan, or from reputed Engineering colleges (IITs/MNIT/BITS Pilani or equivalent), any NABL accredited laboratory duly approved by the department, after obtaining NOC in writing from the competent authority.

7.3 Construction Practices

- a) The Contractor shall carry out **Plant** as well as **Laying Trials** to demonstrate that the proposed work can be successfully produced, laid and compacted as per specifications and shall obtain its approval in writing.
- b) The contractor has to maintain proper traffic management and diversions for easy & safe movement of traffic.
- c) The Contractor shall ensure that collection of material on the road side does not cause any hindrance to the traffic. The contractor shall arrange for separate land for storage of road construction material and machinery at his own cost and these shall not be allowed to be stacked on road side.
- d) The contractor shall submit test certificate from the manufacturer of every cement and steel lot. In addition to test certificate, the contractor shall also arrange to test Cement and Steel samples lot wise from PWD Central/Regional/District Laboratories, Rajasthan or any NABL Laboratory/ reputed Engineering colleges (IITs/MNIT/BITS Pilani or equivalent) after obtaining NOC from competent authority.
- e) The contractor shall submit test certificate of water of every source likely to be used in the work on frequent basis.
- f) The rates are inclusive of all leads and lift and complete finished works for all items, unless and otherwise leads and lifts are mentioned in G-Schedule/ Item of Work. No claim for extra lead will be entertained.

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8. Defect Liability Period

- a) (i) DLP for Bitumen Road Works/Bullding and CD Works shall be 05 (five) years as per CE&AS PWD Rajasthan, Jaipur office order No. SE(R)/EE GGP-II/DLP/20-21/D-95 dated 06.01.2021.
(ii) In modification In above Defect liability Period (DLP) for ROB/Major Bridges/Flyovers and Approaches shall be 10 (ten) years as per CE&AS PWD Rajasthan, Jaipur office order Raj Kaj Reference No. 12921520 date 28.03.2025.
- b) DLP for standalone CC road projects having thickness up to 200 mm shall be 05 (five) years and the projects having thickness more than 200 mm shall be 10 (ten) years as per CE&AS PWD Rajasthan, Jaipur office order Raj Kaj Reference No. 17290790 dated 21.08.25.
- c) As per guidelines issued, vide circular CE&AS PWD Rajasthan, Jaipur office order Raj Kaj Reference No. 12921520 date 28.03.2025, The Contractor shall be fully liable to maintain and keep the entire work and its stretch in defects free condition. Following shall be the important task and activities to be carried out by the contractor during Defect Liability Period (DLP): -

S. No.	Name of items/activities in one year	Frequency of operations
1	Maintenance of road including filling pot holes and patch repair etc.	As and when required.
2	Maintenance of road shoulder in proper condition to make them free from excessive edge drop-offs, roughness and scouring or pot holes.	As and when required
3	Cleaning of surface drains including reshaping to maintain free flow of water.	Twice in a year
4	Cleaning of culverts for free flow of water	Twice in a year
5	Maintenance of CD works.	As and when required
6	Maintenance of road signs, pavement markings and other traffic control devices.	Maintenance as and when required. Repainting once in a year
7	Clearing of tree branches / shrubs to keep the sight distance visible all the time.	Once, generally after rains (In case of areas having rainfall more than 1500 mm/year, as and when required.)
8	Maintenance of CC joints	Once in a year/ whenever Required
9	Re-fixing displaced guard stones	Once in a year

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10	Maintenance of guardrails and parapet rails	Maintenance as and when required. Repainting once in a year
11	Maintenance of 200m and KM stones	Maintenance as and when required. Repainting once in a year

During this period, the contractor shall carry out maintenance and rectifications of defects, if any, at his own cost, failing which it shall be carried out at risk & cost of the contractor and expenditure so incurred shall be recoverable from the contractor.

9. Others

- a) The lowest successful bidder shall have to deposit Additional Performance Security for unbalance bids, in view of Financial (G&T) Department Notification Dated 22.10.2021 issued by the Joint Secretary to the Government by Order No F.2(1) FD/G&T(SPFC)/2017 or as per amendment up-to date if any, which will be part of agreement. (Copy Encl.)
- b) The final bill shall be paid only after closure of settlement of price escalation in all respect whether positive or negative.
- c) Contractor shall be responsible for engaging qualified Civil Engineer at site as per Contract Agreement/ Standard Bid Document.
- d) The Contractor shall be sole responsible for engaging the Labour to carrying out the work at own risk and cost. The Contractor shall follow the contract labour (Regulation) Act 1970 and Rules, 1971 as amended from time to time. The Contractor shall be bound to protect the interest of Labour right, provident fund insurance of workers as per Laws and Rules prevailing and enforced.
- e) NGT Guidelines should be followed by the Contractor wherever mandatory during Construction Activities on Plant and site by ensuring all measures for air/ dust pollution control. All the material shall be transported fully covered. CC/BT plants should fulfill all the necessary conditions of air pollution control. Contractor shall be fully responsible to make execute site dust/ pollution free.
- f) The overall cleaning of site and disposal of rubbish, surplus material etc. shall be done by the contractor as per guidelines and as per direction issued by the Engineer-in-Charge.
- g) Monsoon period is included in completion period of the work.

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OFFICE OF THE CHIEF ENGINEER PWD RAJASTHAN JAIPUR

No. CE(QC)/SE(QC)/2025-26/QC Lab/D- 765

Date: 07/10/2025

CIRCULAR

Sub.: Review of establishment and verification of field laboratory for Road/Bridge and Building work.

Ref.: Chief Engineer (SS), PWD Rajasthan Jaipur office letter No. SE(SS)/QC/D-137 dt. 19.07.2011 and SE(SS)/QC/81 dated 09.08.2011.

Sir,

In above cited reference and direction, there is a need to review establishment of field laboratories by executing agency with proper deployment of technical personnel. Now-a-days in the department many works in Road/Building sectors are being executed adopting higher/richer Specification in Bituminous as well as concrete works. In this regard, instructions were also issued by CE(QC) office to update field laboratories vide letter No. F-1/CE(QC)/SE(QC)/COOCL/D-296 Dated 16-07-2024 (Enclosed). Therefore a revised field laboratory setup for Road/Building works is being approved, so that further directions to field staff may be given to establish field laboratories Accordingly by and there after it verification be done well in time by the QC wing on top priority.

Encl. As above.

(Tara Chand Gupta)
Chief Engineer & Addl. Secy.,
PWD Rajasthan Jaipur

No. CE(QC)/SE(QC)/2023-24/QC Lab/D- 765

Date: 07/10/2025

Copy to following for information and necessary action-

1. PA to Chief Engineer (All), PWD Rajasthan Jaipur.
2. Addl. Chief Engineer, PWD Zone All
3. Superintending Engineer, PWD Circle All
4. Superintending Engineer, PWD QC Circle All
5. Executive Engineer PWD Division All (including QC)

Signature valid

PWD Rajasthan Jaipur
Digitally signed by Tara Chand Gupta

Designation: Chief Engineer
Date: 2025.09.29 20:09:03 IST
Reason: Approved



**List of Laboratory Equipments
I- For Road/Bridge works**

Sl. No	Name of the Apparatus	Number
(A)	GENERAL	
1	Weigh Balances	
	a) 5 — 20 kg capacity Electronic type — Accuracy 1 gm	Min 2 No.
	b) 5000 gm capacity—Electronic Type Accuracy 0.5 gm	Min 1 No.
	c) 2000 gm capacity—Electronic Type Accuracy 0.1 gm	Min 1 No.
2	Oven-electrically operated, thermostatically controlled, SS interior, From 0°C to 220°C Sensitivity 1°C	1 No
3	Sieves : as per IS:460-1962	
	a) I.S. sieves 450 mm dia of sieve sets complete with lid and pan	1 set
	125mm, 100mm, 90mm, 80mm, 75mm, 63mm, 53mm, 50mm, 45mm, 40mm, 37.5mm, 31.5mm, 26.50mm, 25mm, 22.40mm, 20mm, 19mm, 16mm, 13.2mm, 12.50mm, 11.2mm, 10mm, 9.50mm, 6.70mm, 6.30mm, 5.60mm, 4.75mm, 3.35mm, 2.80mm, 2.36mm, with one lid & pan. (Total Sieves with Pan = 31 nos.) availability of sieves must be as per direction of engineer in charge.	
	b) IS sieve 200 mm dia (brass frame and steel/or brass wire cloth mesh) consisting of sieve sets complete with lid and pan	1 sets
	10mm, 9.50mm, 4.75mm, 2.36mm, 2.0mm, 1.70mm, 1.40mm, 1.18mm, 1.0mm, 710 μ, 600μ, 425μ, 355μ, 300μ, 212μ, 180μ, 150μ, 90μ, 75μ, with one lid & pan. (Total Sievs with Pan of 20 nos.) availability of sieves must be as per direction of engineer in charge.	
4	Sieve shaker capable of shaking 200 mm and 450 mm dia sieves-electrically operated with time switch	1 No (Optional)
5	Equipment for determination of specific gravity of fine and coarse aggregate	1 set
6	Measuring cylinder for checking bulk density of aggregate with tamping rod (3 Ltr, 15 Ltr capacity)	1 set
7	Stop watches 1/5 sec. accuracy	1 No
8	Glass thermometers range 0°C to 100°C	4 Nos.
9	Metallic thermometers range up to 300°C.	2 Nos.
10	Hot plates 200 mm dia (1500 watt.)	1 No
11	Enamel trays	
	a) 600 mm x 450 mm x 50 mm	2 Nos
	b) 450 mm x 300 mm x 40 mm	4 Nos
	c) 300 mm x 250 mm x 40 mm	4 Nos
	d) Circular plates of 250 mm dia	4 Nos
12	Water Testing Kit	1 No
13	Elongation & Flakiness indices test apparatus	1 No
14	Aggregate impact test apparatus	1 No
15	Glassware comprising beakers, pipettes, dishes, measuring cylinders (100 to 1000 cc capacity) glass rods and funnels	2 No. each
16	Curing Tank (min size 2 x 1.50 x 0.50 mtr.)	1 No
17	Spirit Level	3 Nos
18	Anicillary Items :- Chisel min 1 ft long 4 Nos, Wooden hammer 2 Nos, Iron hammer 2 Nos, String 2 rolls, wire Brush 2 Nos, Paint Brush 2 Nos, trowel 2 Nos, Iron Hooks 8 Nos etc.	Complete set
19	First Aid box (each set for plat and laying site)	2 Nos.

Sl. No	Name of the Apparatus	Number
20	AC room for Bituminous testing	1 No
21	Desktop computer with Printer facility	1 Set
(B) FOR SOILS		
1	Water still	
2	Atterberg limit devices	1 No
3	Core cutter equipment for soil	1 No
4	Compaction apparatus (Proctor) complete with collar, base plate and hammer and all other accessories	1 No
5	Sand pouring cylinder with conical funnel and tap and complete including modern equipment of dia 100 & 200 mm dia each and Ennore Standard Sand	2 Nos
6	Sampling tins with lids 100 mm dia x 75 mm ht. 1/2 kg capacity and miscellaneous items like moisture tins with lid 50 grams etc.	4 Nos
7	Rapid moisture meter with chemicals	1 No
(C) FOR BITUMEN AND BITUMINOUS MIXES		
1	Thickness guage	4 Nos
2	Steel plates (For tack/ Prime Coat) size say 30 cm*30cm	10 Nos
3	Distant reading thermometer (Digital infra type)	
4	Absolute & Kinematic Viscosity Apparatus	1 No
5	Penetrometer automatic type, including adjustable weight arrangement and needles	1 No
6	Softening point (Ring and ball apparatus)	1 No
7	Furol viscometer	1 No
8	Extraction centrifuge type apparatus electric operated complete with extraction thimbles with solvent and filter paper (Flame Proof)	1 No
9	Core cutting machine suitable for upto 150 mm dia core with min. 6 KVA Gen set and Slicer etc. complete	1 set
10	Marshall compaction apparatus automatically operated complete with accessories (<i>For higher specification BT mixes - BM/DBM/BC etc.</i>)	1 set
11	Constant temperature bath, electrically operator and thermostatically controlled (to accommodate minimum six Specimens) (<i>For higher specification BT mixes - BM/DBM/BC etc.</i>)	1 No
12	Theoretical Specific gravity vibratig Table G_{mm} apparatus for BT Mixes (<i>For higher specification BT mixes - BM/DBM/BC etc.</i>)	1 No
(D) FOR CEMENT, CEMENT CONCRETE AND MATERIALS		
1	Water still	1 No
2	Vicat needle apparatus for setting time with plungers	1 No
3	Moulds	
	a) Concrete Cube 150 mm	Min 18 Nos.
	b) Mortar Cube 50 mm	Min 18 Nos.
	c) Cube mould 50 Cm ² for cement test	Min 6 Nos.
	d) 150 mm x 300 mm ht. Cylinder with capping component along with the capping set and compound	As required
4	Vibrating table size 1 m x 1 m	1 No
5	Needle vibrator	2 Nos
6	Slump test Apparatus (Each for Plant & Laying Site)	2 Nos

Sl. No	Name of the Apparatus	Number
7	Compression Testing Machine (CTM) of 200 Ton capacity with additional dial for flexural testing-electric operated	1 No
8	Compression Testing Machine (CTM) of 5 Ton capacity -electric operated	1 No
9	Core cutting machine suitable for upto 150 mm dia core with min. 6 KVA Gen set and Slicer etc. complete	1 No
10	Rebound hammer with anvil etc complete.	2 Nos
(E) FOR CONTROL OF PROFILE AND SURFACE EVENNESS		
1	Precision Automatic Level with micrometer attachment with precision Staff	1 set
2	ranging rods set of 6 Nos	1 set
3	Distomat / Rodometer	1 set
4	Theodolite with precision Staff complete	1 set
5	3 meter straight edge and measuring wedge	1 set
6	Camber template 2 Lane / 1.5 Lane/ 1 Lane , Shoulders	
	a) Crown type cross-section	3 Nos
	b) Straight run cross-section	2 Nos
7	Steel tape	
	a) 5 m long	2 Nos
	b) 30 m long	2 Nos
NOTE:-	<p>1. The items and their numbers listed above in table are indicative and shall be decided by the Engineer-in-charge as per requirement of the project and modified accordingly.</p> <p>2. Provision and maintenance of field laboratory is not a payable item as it is incidental to the work. Maintenance include all activites described for testing work..</p> <p>3. Contractor shall arrange to maintain the field laboratory in a satisfactory manner untill the issue of Taking Over Certificate for the completed work.</p>	

List of Laboratory Equipments

II- For Building works

Sl. No	Name of the Apparatus	Number
(A)	GENERAL	
1	Weigh Balances	
60	5 — 50 kg capacity Electronic type — Accuracy 1 gm	Min 2 No.
b)	5000 gm capacity—Electronic Type Accuracy 0.5 gm	Min 1 No.
2	Oven-electrically operated, thermostatically controlled, SS interior, From 0°C to 220°C Sensitivity 1°C	1 No
3	Sieves : as per IS:460-1962	
a)	I.S. sieves 450 mm dia of sieve sets complete with lid and pan	1 set
	80mm, 63mm, 40mm, 20mm, 16mm, 12.50mm, 10mm, 4.75mm, 2.36mm, with one lid & pan. (Total Sieves with Pan = 10 nos.) availability of sieves must be as per direction of engineer in charge.	
b)	IS sieve 200 mm dia (brass frame and steel/or brass wire cloth mesh) consisting of sieve sets complete with lid and pan	2 sets
	10mm, 4.75mm, 2.36mm, 1.18mm, 600μ, 300μ, 150μ, 75μ, with one lid & pan. (Total Sievs with Pan of 09 nos.) availability of sieves must be as per direction of engineer in charge.	
4	Sieve shaker capable of shaking 200 mm and 450 mm dia sieves-electrically operated with time switch	1 No (Optional)
5	Equipment for determination of specific gravity of fine and coarse aggregate	1 No
6	Measuring cylinder for checking bulk density of aggregate with tamping rod (3 Ltr, 15 Ltr capacity)	1 set
7	Stop watches 1/5 sec. accuracy	1 No
8	Glass thermometers range 0°C to 100°C	4 Nos.
9	Metallic thermometers range up to 300°C.	2 Nos.
10	Enamel trays	
	a) 600 mm x 450 mm x 50 mm	2 Nos
	b) 450 mm x 300 mm x 40 mm	4 Nos
	c) 300 mm x 250 mm x 40 mm	4 Nos
	d) Circular plates of 250 mm dia	4 Nos
11	Water Testing Kit	1 No
12	Elongation & Flakiness indices test apparatus	1 No
13	Aggregate impact test apparatus	1 No
14	Glassware comprising beakers, pipettes, dishes, measuring cylinders (100 to 1000 cc capacity) glass rods and funnels	2 No. each
15	Curing Tank (min size 2 x 1.50 x 0.50 mtr.)	1 No
16	Spirit Level	3 Nos
17	Anicillary Items :- Chisel min 1 ft long 4 Nos, Wooden hammer 2 Nos, Iron hammer 2 Nos, String 2 rolls, wire Brush 2 Nos, Paint Brush 2 Nos, trowel 2 Nos, Iron Hooks 8 Nos etc.	Complete set
18	First Aid box (each set for plat and laying site)	2 Nos.
19	AC room for cement testing	1 No

Sl. No	Name of the Apparatus	Number
20	Desktop computer with Printer facility	1 Set
(B) FOR CEMENT, CEMENT CONCRETE AND MATERIALS		
1	Water still	1 No
2	Vicat needle apparatus for setting time with plungers	1 No
3	Moulds	
	a) Concrete Cube 150 mm	Min 18 Nos.
	b) Mortar Cube 50 mm	Min 18 Nos.
	c) Cube mould 50 Cm ² for cement test	Min 6 Nos.
	d) 150 mm x 300 mm ht. Cylinder with capping component along with the capping set and compound	As required
4	Vibrating table size 1 m x 1 m	1 No
5	Needle vibrator	2 Nos
6	Slump test Apparatus (Each for Plant & Laying Site)	2 Nos
7	Compression Testing Machine (CTM) of 200 Ton capacity -electric operated	1 No
8	Compression Testing Machine (CTM) of 5 Ton capacity -electric operated	1 No
9	Rebound hammer with anvil etc complete.	2 Nos
C) FOR CONTROL OF PROFILE AND SURFACE EVENNESS		
1	Precision Automatic Level with micrometer attachment with precision Staff	1 set
2	ranging rods set of 6 Nos	1 set
3	Distomat / Rodometer	1 set
4	Steel tape	
	a) 5 m long	2 Nos
	b) 30 m long	2 Nos
NOTE:-	<p>1. The items and their numbers listed above in table are indicative and shall be decided by the Engineer-in-charge as per requirement of the project and modified accordingly.</p> <p>2. Provision and maintenance of field laboratory is not a payable item as it is incidental to the work. Maintenance include all activities described for testing work..</p> <p>3. Contractor shall arrange to maintain the field laboratory in a satisfactory manner until the issue of Taking Over Certificate for the completed work.</p>	

VERIFICATION OF FIELD LABORATORY

- (1) NAME OF WORK :-
- (2) NAME OF AGENCY :-
- (3) STIPULATED DATE OF COMMENCEMENT :-
- (4) DATE OF ESTABLISHMENT OF FIELD LAB :-
- (5) LOCATION OF FIELD LAB :-
- (6) DATE OF VERIFICATION :-
- (7) STATUS OF TECHNICAL STAFF :-

S.No.	Technical Personnel (As per Agreement)			Details of Staff
	Post	Nos.		
1	Site Engineer		:-
2	Material Engineer (Lab)		:-
2	Lab Operator(s)		:-
3	Lab Assistant (s)		:-

Remarks for Verification of Field Lab :-

Enclosed -
Field Lab photographs showing status :-
Any other

(Name)
Site Engineer
Agency

(Name)
Assistant Engineer
PWD Sub Dn.

(Name)
Executive Engineer
PWD Dn.

(Name)
Executive Engineer
PWD QC Dn.

RajKaj Ref No :
18050949

OFFICE OF THE CHIEF ENGINEER PWD RAJASTHAN JAIPUR

No. CE(QC)/SE(QC)/2023-24/IOC-11162 /D-123

Date : 15.06.2023

CIRCULAR

Sub.: Quality & quantity assurance for paving bitumen/emulsion in road construction works.

The quality and quantity of bitumen have always been among major issues in BT road construction, therefore proper test should be conducted at the time of supply of bitumen as well as after laying of bituminous course. Following procedures should be followed:-

A. At the time of supply Bitumen / Emulsion :-

The classification of bitumen has now been designated as viscosity grade bitumen instead of previous penetration grade bitumen. In order to check the viscosity of bitumen it is mandatory to check its grade and quality before decanting the bitumen tanker/drums.

1. Contractor must take prior permission from concerned EE that he will procure bitumen from private empaneled suppliers. The bitumen shall conforming to IS-73 and emulsion shall be conforming to IS-8887.
2. At the Hot Mix Plant site a fully functional bitumen testing lab must be established by contractor along with required qualified manpower for testing of bitumen.
3. Before decanting of tanker the bitumen/emulsion testing shall be carried out by the contractor for following tests:-

Mandatory tests to be conducted prior to unloading bitumen from tanker / drums

S.No.	Test to be Conducted	Frequency of Test	
		For bulk bitumen	For packed container bitumen (Lot Size)
Paving Bitumen (Viscosity grade)			
	Mandatory Tests (Clause 7.4.1 of IS-73 2006 Reaffirmed - 2011) (A) Absolute Viscosity at 60°C, Poises, Min. (B) Penetration @ 25°C, 100 gm, 5 sec., 0.1mm (C) Softening Point. (R&B), °C, Min	All Individual samples of each tanker	Up to 50 - 3 samples 51-150 - 5 samples 151-500 - 7 samples Above 500 - 10 samples
1.	For remaining characteristics as mentioned below:- (A) Kinematic Viscosity at 135°C, cSt, Min. (B) Flash point, (Cleveland open cup), °C, Min (C) Solubility in trichloroethylene, percent, Min (D) Test on residue from thin oven tests/RTFOT (I) Viscosity Ratio at 60°C, Max. (II) Ductility at 25°C, cm, Min, after thin-film oven test	A composite sample of both packed and bulk bitumen be prepared by mixing together in equal quantities of paved grade bitumen sampled (Clause 7.4.2 of IS-73 2006 Reaffirmed - 2011)	

MB

Bitumen Emulsion (cationic type)			
2.	1. Viscosity by Sayboltfurol, viscometer, second at 25° C and 50° C 2. Residue on 600µ sieve (IS:8887) 3. Storage Stability Test (IS:8887) Flash Point Test, where bituminous	One Test for each lot	As per IS-8887

4. The contractor after confirming the quality and grade of bitumen with respect to clause 7.5.1 of IS-73 2006 Reaffirmed - 2011) shall communicate to Assistant Engineer / Executive Engineer in enclosed format (A) by any digital mode of communications and seek written acceptance & permission for decantment of bitumen.
5. These testing would be done by contractor for 100% quantity and he should manage to test at least 15% of quantity testing in the presence of Junior Engineer/ Assistant Engineer.

B. During / after laying bituminous work:-

The quality assurance handbook for rural roads (MoRD) and the Specifications for road and bridge work (5th Revision) MoRTH insist for testing of quality of bitumen work during construction, therefore it is enjoined upon all concern officials to conduct various tests regarding bitumen content and density of compacted layer after execution of bituminous work, so as to assess the quality of finished bituminous work as per standard laid down. The frequency of tests of finished bituminous work as per MORD are as under-

Mandatory tests to be conducted during construction

S.No.	Name of Item	Name of Test	Proposed for adoption
1	20 mm Open graded PMC	Binder content	At least two test per day
2	Bituminous macadam	Binder content	At least two test per day
		Density of compacted layer	One test per 700 Sqm. Area
3	Dense Bituminous macadam and Bituminous carpet	Binder content	One set for each 400 MT. of mix subjected to minimum of two test per day per plant
		Density of compacted layer	One test per 700 Sqm. Area
4	Semi dense bituminous carpet	Binder content	At least two test per day
		Density of compacted layer	One test per 700 Sqm. Area minimum 3 test per day

It is therefore directed to test the bitumen and the laid bituminous work as per frequencies mentioned above. The permissions to decant the bitumen obtained by the contractor along with result of tests conducted during the bituminous work should be submitted with each bill of bituminous work, then only the contractor's bill should be passed by EE.

Above directions shall be strictly followed and tests should be carried out mandatorily, otherwise action will be initiated against responsible officers for negligence & disobeying the directions.

mg

This circular is being issued in supersession of CE PWD Rajasthan Jaipur Circular No. 7/2001 issued vide No. F.7B(1)Sec.1/A/2001/D-4536 dated 17.07.2001.

This bears the approval of Administration Department on file dated 14.06.2023.

Sanjiv Mathur
(Sanjiv Mathur)
Chief Engineer & Addl. Secy.
PWD Rajasthan Jaipur

No. CE(QC)/SE(QC)/2023-24/IOC-11162 /D-123

Date : 15.06.2023

Copy to following for information and necessary action please-

1. SA to Hon'ble PWD Govt. of Rajasthan Jaipur
2. PS to Principal Secretary, PWD Rajasthan Jaipur
3. PS to Secretary, PWD Rajasthan Jaipur
4. PS to Chief Engineer & Addl. Secretary, PWD Rajasthan Jaipur
5. Chief Engineer (Roads/Building/NH/PMGSY/Electrical/QC) PWD Rajasthan Jaipur
6. Addl. Chief Engineer (Adm/ Roads/BOT/Mech./Planning) PWD Rajasthan Jaipur
7. Addl. Chief Engineer, PWD Zone (All) including PPP/Electrical
8. Superintending Engineer (Roads/Building/PMGSY/SS/Enq./Bridge/ NH/QC/Traffic) PWD Rajasthan Jaipur
9. Superintending Engineer, PWD Circle (All)
10. Executive Engineer PWD Dn. (All)

Mookesh
15/6/23
(Mookesh Bhati)
Chief Engineer (QC)
PWD Rajasthan Jaipur

Format (A)

Format for seeking permission for decantment of Bitumen / Emulsion

(Ref: No. CE(QC)/SE(QC)/2023-24/IOG-11162 /D-123 Date: 15.06.2023)

Name of work			
Work Order No.			
Name of Contractor			
Source of Bitumen i.e. Name of Supplier			
Ref. of Bill /CRC			
Grade of Bitumen / emulsion			
Batch /Lot No.			
Month & Year of Manufacturing			
Qty of Bitumen	MT	Qty of Emulsion	MT
	No. of Drums		No. of Drums
Bitumen		Result obtained	
A. Absolute Viscosity at 60°C, Poises, Min.			
B. Penetration @ 25°C, 100 gm, 5 sec., 0.1mm			
C. Softening Point. (R&B), °C, Min			
Emulsion		Result obtained	
A. Viscosity by sayboltfurol, viscometer, second at 25° C and 50° C			
B. Residue on 600µ sieve (IS:8887)			
C. Storage Stability Test (IS:8887)			

The Bitumen / Emulsion received by me has been tested and results are as above.

Signature of Engineer
of Contractor

Signature of authorized person
of Contractor

Report accepted / rejected. Permission for decantment of tanker / packed drums
is hereby granted / not granted.

Signature of Executive Engineer

कार्यालय मुख्य अभियंता सार्वजनिक निर्माण विभाग, राजस्थान जयपुर
क्रमांक एसई (आर)/ईई जीजीपी-II/डीएलपी/20-21/डी-95 दिनांक 6/1/21

कार्यालय आदेश

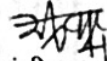
विभाग के आदेश क्रमांक CE(Bldg.)DLP.(Bldg.Works)/D-268 दिनांक 07.10.2009, क्रमांक CE(Bldg.)DLP.(Bldg.Works)/D-980 दिनांक 12.10.2012 एवं क्रमांक SE(SS)/DLP/2011-12/D-624 दिनांक 12.10.2012 को अधिक्रमण (Supersede) करते हुए राज्य योजनाओं में लागत राशि रू० 10.00 लाख से अधिक के कार्यों की दोष निवारण की अवधि निम्नानुसार निर्धारित की जाती है:-

क्र. स.	कार्य का प्रकार	दोष निवारण अवधि
1	सडक नवीनीकरण एवं विशेष मरम्मत सडक/भवन/पुल/सीडी कार्य	5 वर्ष
2	नवीन सडक/भवन/पुल/सीडी कार्य	5 वर्ष
3	सडक चौडाईकरण, सुदृढीकरण एवं उन्नयन कार्य	5 वर्ष

यह आदेश जारी करने की दिनांक से प्रभावी है तथा प्रगतिरत एवं आगामी समस्त निविदाओं में शामिल किया जाना है।

उक्त आदेश वित्त (जीएण्डटी) विभाग आईडी संख्या 102005419 दिनांक 7.12.2020 द्वारा दी गयी टिप्पणी अनुसार प्रशासनिक विभाग की आईडी संख्या सीएमओ/एफ 20004363 दिनांक 22.12.2020 द्वारा अनुमोदित है।


उपरोक्त संदर्भ में जारी कार्यालय आदेश क्रमांक एसई (आर)/ईई जीजीपी-II/डीएलपी/20-21/डी-136 दिनांक 30.12.2020 को उक्तानुसार संशोधित माना जावे।


4/1/2021
(संजीव माथुर)

मुख्य अभियन्ता एवं अति० सचिव
सा०नि०वि, राज० जयपुर

प्रतिलिपि निम्नांकित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. श्रीमान प्रमुख शासन सचिव, माननीय मुख्यमंत्री कार्यालय, राजस्थान जयपुर।
2. निजी सचिव, श्रीमान प्रमुख शासन सचिव, सा.नि.वि., राजस्थान जयपुर।
3. निजी सचिव, श्रीमान शासन सचिव, सा.नि.वि., राजस्थान जयपुर।
4. मुख्य अभियंता, पीएमजीएसवाई/एन०एच०/भवन/गुण नियंत्रण, सा.नि.वि. राजस्थान जयपुर।
5. अतिरिक्त मुख्य अभियंता, सा.नि.वि. संभाग:- (समस्त)।
6. अधीक्षण अभियंता, सा.नि.वि. वृत्त:- (समस्त)।
7. अधिशाषी अभियन्ता, सा.नि.वि. खण्ड:- (समस्त)।


4/1/2021
(संजीव माथुर)

मुख्य अभियन्ता एवं अति० सचिव
सा०नि०वि, राज० जयपुर

OFFICE OF THE CHIEF ENGINEER P.W.D. RAJASTHAN, JAIPUR

No.

Date

CIRCULAR

Subject: Design of Road & Adoption of Specifications and Defect Liability Period (DLP)

In light of the ongoing efforts to enhance road infrastructure and ensure long-term serviceability, the following directives are issued to all Technical Sanctioning Authorities of the department. These guidelines are intended to improve the overall quality and performance of roadworks, particularly with respect to design life, traffic capacity, material standards, and maintenance protocols during the Defect Liability Period (DLP).

1. Design Considerations for Roadworks

The design of roads shall adhere to the following key principles:

- (a) **Width of Carriageway:** Following PCU parameters at commencement of project shall be adhered:
- For traffic volumes up to 1,000 PCUs, a single lane (3.75 m) is required.
 - 1,000–2,500 PCUs - Intermediate lane (5.50 m)
 - 2,500–7,500 PCUs- Two lanes (7.00 m)
 - 7,500–10,000 PCUs- Two lanes with paved shoulder (10.00 m)
 - Above 10,000 PCUs- planning of Four lanes shall be initiated
- (b) **Axle Load Survey:** Ensure that accurate axle load surveys are conducted to determine the Vehicle Damage Factor (VDF) and the design traffic in MSA (Million Standard Axles) for heavy traffic loading areas such as mining roads or other important road sections.
- (c) **Design Life:**
- (i) For State Highways (SH), and Major District Roads (MDR), the design life shall be 15 years.
 - (ii) For Rural Roads (ODR & VR), the design life of 10 years to be considered.
- (d) **Overlay Design for Existing Roads:** For strengthening of existing pavements, use Benkelman Beam Deflection (BBD) or Falling Weight Deflectometer (FWD) to determine the overlay thickness as per the stipulations in IRC:81 & IRC:115.

Signature Not Verified

2. Specifications and Standards

All road works must comply with the MoRTH/MoRD specifications i.e. for ODR & VR MoRD specifications shall be followed and for SH and MDR category of roads with latest IRC codes and

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Gupta

Designation: Chief Engineer

Date: 2025.08.28 16:06:06 IST

Reason: Not Verified

guidelines as applicable. Additionally, all designs must account for the California Bearing Ratio (CBR) of the embankment/sub-grade and traffic volume projections.

3. Technical Sanction Documentation:

- (i) While issuing technical sanctions, the technical note / detail should invariably include present PCUs, Projected Traffic, Design life, MSA considered & lane configuration. Department should undertake periodical traffic surveys and form data base of SH/MDR roads.
- (ii) A certificate that relevant provision of the specifications and standards in the technical estimate has been catered should be given.
- (iii) For renewal of the existing SH&MDR roads, a single layer of Bituminous concrete i.e. B.C. having thickness not less than 30 mm shall be laid. In no case open graded premix carpet shall be permitted.
- (iv) For renewal on ODR & VR category of roads open graded premix carpet with seal coat shall be adopted. If the existing wearing course is superior than the open graded premix carpet than the composition of new wearing course shall be similar to the existing wearing course.
- (v) The wearing course for any type of roads works having design traffic more than 2 MSA, BC wearing course shall be provided not less than minimum 30 mm thickness. For all other ODR and VR roads having less traffic (< 2 msa) rural road specification shall be followed.
- (vi) For centrally sponsored scheme / project such as PMGSY roads / CRIF works, the roads should be constructed in accordance with the guidelines of the respective schemes.
- (vii) For the region having low CBR values, new material and methodologies for which guidelines are issued by IRC shall be considered while preparing the technical estimates.
- (viii) Maintenance during DLP should be ensured regularly as per the contract provisions and same shall be monitored through PWD SEWA app.
- (ix) All circulars issued by PWD from time to time related to Quality of works are to be duly complied by the Departments/ Undertaking/ Authority under administrative control.
- (x) **Defect Liability Period (DLP):** - A set time frame after a construction project is completed during which the contractor is responsible for rectifying defects or issues at their own cost and Redress Approved for issues with the construction workmanship and materials. The

Signature Not Verified

Digitally signed by Partha Chandra Gupta

Designation: Chief Engineer

Date: 2025.03.26 16:06:06 IST

Redress Approved

DLP clause in the contract ensures that the employer receives a finished product that meets quality standards and specifications. During this period contractor is liable to keep the entire road surface and structure in defects free conditions.

Following are the important task to be carried out during the DLP by the contractor and should be mentioned in special condition of the contract with timelines:

S.No	Name of item/activities in one year	Frequency of operations
1	Maintenance of road including filling pot holes and patch repair etc.	As and when required.
2	Maintenance of road shoulder in proper condition to make them free from excessive edge dropoffs, roughness and scouring or pot holes.	As and when required
3	Cleaning of surface drains including reshaping to maintain free flow of water.	Twice in a year
4	Cleaning of culverts for free flow of water	Twice in a year
5	Maintenance of CD works.	As and when required
6	Maintenance of road signs, pavement markings and other traffic control devices.	Maintenance as and when required. Repainting once in a year
7	Clearing of tree branches / shrubs to keep the sight distance visible all the time.	Once generally after rains (In case of areas having rainfall more than 1500 mm per year, as and when required.
8	Maintenance of CC joints	Once in a year/whenever
9	Re-fixing displaced guard stones	Once in a year
10	Maintenance of guardrails and parapet rails	Repainting once in

Signature Not Verified

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Designation: Chief Engineer
Date: 2025.03.28 16:06:06 IST
Reason: Approved
Repainting once in

		year
11	Maintenance of 200m and kilometer stones	Maintenance as and when required. Repainting once in year

- (xi) To fulfill above objective PWD SEWA app will be the basic tool for monitoring of the DLP works.
- (xii) DLP is currently five years for all road projects costing more than 10 lacs in the State, as per order No SE(R)/EE GGP-II/DLP/20-21/D-95 dated 06.01.2021, which is now modified to the extent as follows::
- The DLP shall be ten years for RoBs/ major bridges/flyovers, and approaches.
 - The DLP for standalone CC road projects and aggregate CC road works longer than 500 meters in a road works shall be ten years.

Provided that, for the centrally sponsored schemes, the DLP provisions will apply in accordance with the Standard Bidding Documents for the corresponding scheme. Provided further that the security deposit proportionate to the works at (a) & (b) shall be refunded only after completion of DLP of 10 years. For bituminous approaches to structures, the riding quality shall be maintained as per IRC guidelines during DLP.

All concerned officials are directed to ensure compliance with the above directives. The provisions of this circular will be applicable prospectively.

This bears competent approval.

(T.C. Gupta)
Chief Engineer & Addl. Secy.
PWD, Rajasthan, Jaipur

- SA to Hon'ble Dy. Chief Minister (PWD), Rajasthan, Secretariat, Jaipur
- PS to ACS, PWD, Govt. of Rajasthan, Jaipur
- PS to Secretary, PWD, Govt. of Rajasthan, Jaipur
- PS to Chief Engineer & Addl. Secy, PWD, Rajasthan, Jaipur
- PS to Chief Engineer (Roads/Bridges/ QC/CRIF/BLDG/SS/PMGSY/NH), PWD, Rajasthan, Jaipur
- Addl. Chief Engineer PWD Zone.....(All)
- Superintending Engineer PWD Circle.....(All)
- Executive Engineer PWD Division.....(All)

Signature Not Verified

Digitally signed by Tara Chand Gupta

Designation : Chief Engineer

Date: 2025.03.28 16:06:06 IST

Reason: Approved

Corrigendum-I

Subject:- Design of Road & Adoption of Specification and Defect Liability Period (DLP).

A circular issued by this office vide Rajkaj No. 12921520 dated 28.03.2025 and Corrigendum vide latter No.950 dated-11.07.2025, Clause-3 (Technical Sanction Documentation) sub clause xii(b) is revised as under:-

Previous clause	Revised clause
The DLP for standalone CC road projects shall be ten years.	The DLP for standalone CC road projects having Thickness up to 200mm will be 5 years, and the projects having thickness more than 200mm will be ten years.

(T.C. Gupta)
Chief Engineer & Addl. Secy.
PWD, Rajasthan, Jaipur.

Copy to:-

1. SA to Hon'ble Dy. Chief Minister (PWD), Rajasthan, Secretariat, Jaipur.
2. PS to ACS, PWD, Govt. of Rajasthan, Jaipur.
3. PS to Secretary, PWD, Govt. of Rajasthan, Jaipur.
4. PS to Chief Engineer & Addl. Secretary, PWD, Rajasthan, Jaipur.
5. PA to Chief Engineer (Road/SS/ NH/Bldg./ QC/PMGSY/CRIF), PWD, Rajasthan, Jaipur.
6. Addl. Chief Engineer, PWD, Zone-..... All
7. Superintending Engineer, PWD Circle-.....All.
8. Executive Engineer, PWD Division-.....All.

Signature Not Verified



Digitally signed by Tara Chand
Gupta
Designation : Chief Engineer
Date: 2025.08.21 18:59:21 IST
Reason: Approved



सत्यमेव जयते

राजस्थान राजपत्र
विशेषांक

साधिकार प्रकाशित

RAJASTHAN GAZETTE
Extraordinary

Published by Authority

आश्विन 30, शुक्रवार, शाके 1943-अक्टूबर 22, 2021
Asvina 30, Friday, Saka 1943- October 22, 2021

भाग 4 (ग)

उप-खण्ड (I)

राज्य सरकार तथा अन्य राज्य-प्राधिकारियों द्वारा जारी किये गये (सामान्य आदेशों, उप-विधियों आदि को सम्मिलित करते हुए) सामान्य कानूनी नियम।

FINANCE (G&T) DEPARTMENT

NOTIFICATION

Jaipur, October 22, 2021

G.S.R.364 .-In exercise of the powers conferred by section 55 of the Rajasthan Transparency in Public Procurement Act, 2012 (Act No. 21 of 2012), the State Government hereby makes the following rules further to amend the Rajasthan Transparency in Public Procurement Rules, 2013, namely:-

1. Short title and commencement.- (1) These rules may be called the Rajasthan Transparency in Public Procurement (Fourth Amendment) Rules, 2021.

(2) They shall come into force from the date of their publication in the Official Gazette.

2. Insertion of new rule 75A.- After the existing rule 75 and before the existing rule 76 of the Rajasthan Transparency in Public Procurement Rules, 2013, the following new rule 75A shall be inserted, namely:-

"75A. Additional Performance Security.- (1) In addition to Performance Security as specified in rule 75, an Additional Performance Security shall also be taken from the successful bidder in case of unbalanced bid. The Additional Performance Security shall be equal to fifty percent of Unbalanced Bid Amount. The Additional Performance Security shall be deposited in lump sum by the successful bidder before execution of Agreement. The Additional Performance Security shall be deposited through e-Grass, Demand Draft, Banker's Cheque, Government Securities or Bank Guarantee.

Explanation : For the purpose of this rule,-

- (i) Unbalanced Bid means any bid below more than fifteen percent of Estimated Bid Value.
- (ii) Estimated Bid Value means value of subject matter of procurement mention in bidding documents by the Procuring Entity
- (iii) Unbalanced Bid Amount means positive difference of eighty five percent of Estimated Bid Value minus Bid Amount Quoted by the bidder.

(2) The Additional Performance Security shall be refunded to the contractor after satisfactory completion of the entire work. The Additional Performance Security shall be forfeited by the Procuring Entity when work is not completed within stipulated period by the contractor. Provision for 'Unbalanced Bid' and 'Additional Performance Security' shall be mentioned in the Bidding Documents by the Procuring Entity."

[No. F.2(1)FD/G&T(SPFC)/2017]

By Order of the Governor,

Vimal Kumar Gupta,
Joint Secretary to the Government.

राज्य केन्द्रीय मुद्रणालय, जयपुर।

राजस्थान सरकार
वित्त (जी. एण्ड टी.) विभाग

क्रमांक: एफ.1(8)वित्त/साविलेनि/2011

जयपुर, दिनांक: 4 फरवरी, 2013
परिपत्र सं. - 8/2013

परिपत्र

जैसा कि आपको विदित है राजस्थान राजपत्र में जारी अधिसूचना दिनांक 24.01.2013 द्वारा राजस्थान लोक उपापन में पारदर्शिता अधिनियम, 2012 (**Rajasthan Transparency in Public Procurement Act, 2012**) एवं राजस्थान लोक उपापन में पारदर्शिता नियम, 2013 (**Rajasthan Transparency in Public Procurement Rules, 2013**) राज्य में दिनांक 26.01.2013 से प्रभावी हो गये हैं। समस्त उपापन संस्थाएँ (Procurement Entities) जिसमें राज्य सरकार के समस्त विभाग, सरकार के स्वामित्वाधीन या नियंत्रणाधीन कोई भी राज्य पब्लिक सेक्टर उद्यम, संविधान द्वारा स्थापित या गठित कोई भी निकाय जिसके व्यय की पूर्ति राज्य की समेकित निधि से की जाती है, राज्य विधान मण्डल के किसी अधिनियम द्वारा स्थापित या गठित कोई निकाय या बोर्ड या निगम या प्राधिकरण या सोसायटी या न्यास या स्वायत्त निकाय या राज्य सरकार के स्वामित्वाधीन या नियंत्रणाधीन कोई निकाय, सम्मिलित है, के द्वारा सामग्री, सेवा, संकर्म (Works) के उपापन (Procurement) के मामलों में उक्त अधिनियम एवं नियमों की अक्षरशः पालना सुनिश्चित किया जाना आवश्यक है।

उक्त अधिनियम की धारा 50 के अन्तर्गत राज्य उपापन सुविधा प्रकोष्ठ (State Procurement Facilitation Cell) का गठन किया जा चुका है। उक्त प्रकोष्ठ का नोडल अधिकारी संयुक्त सचिव, वित्त (जीएण्डटी) विभाग को बनाया गया है यदि उपापन संस्था उक्त अधिनियम एवं नियमों के संदर्भ में कोई जानकारी की अपेक्षा रखती है तो प्रशासनिक विभाग के माध्यम से प्रकरण राज्य उपापन सुविधा प्रकोष्ठ को प्रेषित किया जा सकता है।

उक्त अधिनियम की धारा 17 में दिये गये प्रावधान के तहत राज्य लोक उपापन पोर्टल (<http://sppp.raj.nic.in>) बना दिया गया है। उपापन संस्था अधिनियम की धारा 17 (2) एवं राजस्थान लोक उपापन में पारदर्शिता नियम, 2013 के प्रावधानों के अनुसार पालना सुनिश्चित करावें।

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उक्त अधिनियम के अध्याय 3 एवं नियमों के अध्याय 7 के अनुसार बोली लगाने वाला या भावी बोली लगाने वाला (bidder or prospective bidder) उपापन प्रक्रिया के दौरान उपापन संस्था के किसी निर्णय, कार्रवाई या लोप, इस अधिनियम या इसके अधीन जारी नियमों के उपबन्धों के उल्लंघन में है तो वह अपील दाखिल कर सकेगा। इस संबंध में बोली दस्तावेजों, पूर्व अर्हता दस्तावेजों, रजिस्ट्रीकरण दस्तावेजों में प्रथम अपील अधिकारी का पदाभिहित (designated) विनिर्दिष्ट (specified) उल्लेख उपापन संस्था द्वारा किया जाना आवश्यक है। अतः, अधिनियम की धारा 3 (2) में उल्लिखित समस्त विभाग/संगठन अपने स्तर पर प्रथम अपील अधिकारी का निर्धारण कर वित्त विभाग को दिनांक 15 फरवरी, 2013 तक सूचित करें। यहां यह उल्लिखित करना उपयुक्त होगा कि प्रथम अपील अधिकारी उपापन संस्था से एक स्तर उच्च होना आवश्यक है। द्वितीय अपील अधिकारी राज्य सरकार के विभागों के लिये संबंधित प्रशासनिक विभाग होगा। यदि प्रशासनिक विभाग स्वयं उपापन संस्था या प्रथम अपील अधिकारी है तो वित्त विभाग प्रथम/द्वितीय अपील अधिकारी होगा। ऐसे मामलों में जहां वित्त विभाग प्रथम अपील अधिकारी है तो द्वितीय अपील अधिकारी प्रकरण विशेष के अनुसार राज्य सरकार द्वारा पदाभिहित (designated) किया जायेगा।

उक्त अधिनियम के अनुसार सामग्री, सेवा, संकर्म के उपापन के लिये स्टेण्डर्ड बिडिंग डॉक्यूमेन्ट्स प्रक्रियाधीन है। अधिनियम की धारा 59 (Savings) के अनुसार इस अधिनियम में उपबन्धित सामग्री, सेवा एवं संकर्मों के उपापन से संबंधित समस्त नियम, विनियम, आदेश, अधिसूचनायें, विभागीय संहिताएँ, निर्देशिकायें, उपविधियाँ, शासकीय ज्ञापन या परिपत्र जो इस अधिनियम के प्रारम्भ की तारीख को प्रवृत्त थे, उनके इस अधिनियम के उपबन्धों से संगत होने की सीमा तक तब तक प्रवृत्त बने रहेंगे जब तक कि उनको इस अधिनियम के अधीन बनाये या जारी किये गये नियमों, मार्गदर्शक सिद्धान्तों, अधिसूचना या यथास्थिति आदेश द्वारा निरसित या अतिक्रमित नहीं कर दिया जाता। अतः, उक्त अधिनियम एवं नियमों के अनुसार सामग्री या सेवा के उपापन के लिये वर्तमान प्रचलित बिड दस्तावेज सामान्य वित्तीय एवं लेखा नियम पार्ट II में दिये गये SR फार्म 14, 15, 16 और 17 तथा संकर्म के उपापन के लिये सार्वजनिक निर्माण वित्तीय एवं लेखा नियम के अपेण्डिक्स XI में दिये गये वर्तमान प्रचलित दस्तावेज बोली दस्तावेजों के रूप में अधिनियम व नियमों के प्रावधानों की सीमा तक प्रयोग किये जा सकेंगे, जब तक कि नवीन स्टेण्डर्ड बिडिंग डॉक्यूमेन्ट्स जारी नहीं किये जाते हैं। तथापि निम्नांकित संलग्नक (Annexures) वर्तमान प्रचलित बोली दस्तावेजों के साथ सम्मिलित करते हुये ही बिड दस्तावेज जारी किया जाना सुनिश्चित किया जाये—

Annexure A : Compliance with the Code of Integrity and No Conflict of Interest

Annexure B : Declaration by Bidders regarding Qualifications

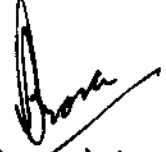
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Annexure C : Grievance Redressal during Procurement Process

Annexure D : Additional Conditions of Contract

अतः प्रशासनिक विभाग अपने अधीन समस्त विभागो, कार्यालयों एवं संगठनो से उक्त निर्देशों की कठोरता से पालना सुनिश्चित करावें।

संलग्न: **Annexure A to D**



(अखिल अरोरा)

शासन सचिव, वित्त (बजट)

प्रतिलिपि निम्नांकित को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित है—

1. निजी सचिव, राज्यपाल/मुख्यमंत्री/समस्त मंत्रीगण/राज्य मंत्रीगण।
2. निजी सचिव, मुख्य सचिव/समस्त अति. मुख्य सचिव/समस्त प्रमुख शासन सचिव/समस्त शासन सचिव/समस्त विशिष्ट शासन सचिव।
3. सचिव, राजस्थान विधान सभा, राजस्थान, जयपुर। 4. सचिव, लोकायुक्त सचिवालय, राजस्थान, जयपुर।
5. सचिव, राजस्थान लोक सेवा आयोग, अजमेर। 6. रजिस्ट्रार, राजस्थान उच्च न्यायालय, जोधपुर/जयपुर।
7. समस्त संयुक्त शासन सचिव/उप शासन सचिव/सचिवालय के समस्त अनुभाग/विभाग।
8. प्रधान महालेखाकार (सविल लेखा परीक्षा) राजस्थान, जयपुर।
9. महालेखाकार (प्राप्ति एवं वाणिज्यिक लेखा परीक्षा)/(ए एण्ड ई) राजस्थान, जयपुर।
10. समस्त विभागाध्यक्ष/जिला कलक्टर/संभागीय आयुक्त।
11. रजिस्ट्रार, राजस्थान सिविल सेवा अपील अधिकरण, जयपुर। 12. समस्त कोषाधिकारी।
13. सिस्टम एनालिस्ट, वित्त विभाग को भेजकर लेख है कि परिपत्र को को वित्त विभाग की वेबसाईट पर प्रकाशित करवाने की व्यवस्था करावें।



(उर्मिला जोशी)

संयुक्त सचिव

Annexure A : Compliance with the Code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall -

- (a) not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- (b) not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- (e) not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) not obstruct any investigation or audit of a procurement process;
- (g) disclose conflict of interest, if any; and
- (h) disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of Interest:-

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

- i. A Bidder may be considered to be in Conflict of Interest with one or more parties in a bidding process if, including but not limited to:
 - a. have controlling partners/ shareholders in common; or
 - b. receive or have received any direct or indirect subsidy from any of them; or
 - c. have the same legal representative for purposes of the Bid; or
 - d. have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Entity regarding the bidding process; or
 - e. the Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or
 - f. the Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
 - g. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

Annexure B : Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted to for procurement of in response to their Notice Inviting Bids No..... Dated..... I/we hereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012, that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date:

Place:

Signature of bidder

Name :

Designation:

Address:

Annexure C : Grievance Redressal during Procurement Process

The designation and address of the First Appellate Authority is _____

The designation and address of the Second Appellate Authority is _____

(1) Filing an appeal

If any Bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued thereunder, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings:

Provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

- (2) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within thirty days from the date of the appeal.
- (3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

(4) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- (a) determination of need of procurement;
- (b) provisions limiting participation of Bidders in the Bid process;
- (c) the decision of whether or not to enter into negotiations;
- (d) cancellation of a procurement process;
- (e) applicability of the provisions of confidentiality.

(5) Form of Appeal

- (a) An appeal under para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.

- (c) Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.

(6) Fee for filing appeal

- (a) Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
- (b) The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

(7) Procedure for disposal of appeal

- (a) The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- (b) On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,
 - (i) hear all the parties to appeal present before him; and
 - (ii) peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.

Annexure D : Additional Conditions of Contract

1. Correction of arithmetical errors

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:

- i. if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- ii. if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- iii. if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

2. Procuring Entity's Right to Vary Quantities

(i) At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decrease shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices or other terms and conditions of the Bid and the conditions of contract.

(ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.

(iii) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 25% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.

3. Dividing quantities among more than one Bidder at the time of award (In case of procurement of Goods)

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.