TECHNICAL REPORT Nº 001-2026-GECOR-GAESP-DT

Brasília, on the date of the signature

To: GAESP/DT

Subject: Price survey for opening a Price Registration System – SRP, aiming for the eventual acquisition of 741.82 tons of TR-57 rails for STU-REC.

Technical Department: Technical Management of Engineering Cost Control and Reference – GECOR/GAESP/DT.

I – REPORT

1. This Technical Note aims to demonstrate the methodology adopted for estimating the prices of the contract whose object is the opening of a Price Registration System – SRP for the eventual acquisition of 741.82 tons of TR-57 rails, destined for the Recife Urban Trains Superintendence – STU-REC.
2. This statement aims to address the points raised in Technical Note No. 008-2026/GALIC/P, specifically regarding the need to present a Price Research Technical Note, demonstrating the calculation of the expected contract value.
3. For the estimation of the contract value, the SI-CRO/DNIT, code M2202, referring to the item "TR57 rail in carbon steel – C = 12 m", with a base date of January/2026, for the State of Pernambuco, was adopted as the main reference.
4. As a supplementary reference, Electronic Invoice No. 157198 was considered, referring to the previous acquisition of TR-57 rails by CBTU, linked to Contract No. 033-2024/DT, monetarily updated by the IPA-OG/DI index – Basic Metallurgy, code FGVDADOS 1477288. **I**

II – SUBSTANTIATION

5. Although the immediate object of the contract is the acquisition of goods, and not the direct contracting of works or engineering services, the TR-57 rails constitute a technical input directly linked to the railway infrastructure of CBTU/STU-REC.

6. For this reason, the use of SICRO/DNIT is technically appropriate, since it is an official system of reference costs applicable to transport infrastructure, in addition to containing a specific item compatible with the intended object.

7. Decree No. 7,983/2013, when establishing parameters for the preparation of reference budgets for works and engineering services with resources from the Federal Government, recognizes SICRO as a reference system for works and services of transport infrastructure. Even though the present contract has as its immediate object the acquisition of goods, the railway rails constitute an essential input of the permanent way, which is why the adoption of SICRO/DNIT as the main parameter is technically pertinent.

8. The contracting will be carried out through a Price Registration System – SRP, a modality in which the supplier benefiting from the Agreement must maintain the registered conditions during its validity, ordinarily up to 12 months, according to the RILC-CBTU. Thus, the reference value must be defined prudently, considering not only the historical price of the last acquisition, but also the economic, logistical and exchange rate risks applicable to the validity period of the Agreement.

III – REFERÊNCIA SICRO/DNIT

5. For the present research, the Summary Report of Materials from SICRO/DNIT – Pernambuco – January/2026 was adopted, as shown in the table below:

Code	Description	Unit	Reference date	Unitary Value
M2202	Trilho TR57 em aço-carbono – C = 12 m	t	jan/2026	R$ 9.821,0559

6. Considerando o quantitativo de 741,82 toneladas, o valor total estimado com base no SICRO/DNIT é:

Code	Description	Unit	Reference date	Unitary Value
Trilho TR57 em aço-carbono – C = 12 m	741,82	t	R$ 9.821,0559	R$ 7.285.455,69

IV – SUPLEMENTARY REFERENCE: NF-e Nº 157198 ATUALIZADA

7. As a supplementary reference, NF-e No. 157198 was considered, referring to the previous acquisition of TR-57 rails by CBTU, within the scope of Contract No. 033-2024/DT.

8. The aforementioned NF-e shows the supply of 1,365,600 kg of TR-57 rails, for a total value of R$ 10,326,940.32, with a unit value of R$ 7.562200/kg, equivalent to R$ 7,562.20/t.

9. For comparison purposes with the base date of the current research, the value of the NF-e was updated by the IPA-OG/DI index – Basic Metallurgy, code FGVDADOS 1477288, considering the June/2025 index as the initial index and the January/2026 index as the final index.

Descrição	Valor
Original Invoice value -e nº 157198	R$ 7.562,20/t
IPA-OG/DI index– Basic Metarlugy – jun/2025	373,657
IPA-OG/DI index– Basic Metalurgy – jan/2026	370,699
Update factor	370,699 ÷ 373,657 = 0,992085
Updated Value	R$ 7.562,20 × 0,992085 = R$ 7.502,33/t

10. Aplicando-se o valor atualizado da NF-e ao quantitativo atual de 741,82 toneladas, obtém-se o seguinte valor comparativo:

Reference	Quantity	Updated unitary value	Total comparative value
NF-e nº 157198 atualizada	741,82 t	R$ 7.502,33/t	R$ 5.565.378,44

11. The updated NF-e (electronic invoice) is relevant as a recent acquisition record for CBTU itself. However, since it represents a specific contract, carried out under commercial, competitive, logistical, and exchange rate conditions specific to that moment, it is understood that it should only be used as a supplementary reference, and not as the main parameter for the estimated value.

V – ANALYSIS OF THE ECONOMIC AND LOGISTICS SCENARIO

13. The SICRO/DNIT reference used has a January 2026 reference date. This reference precedes the worsening of the international scenario resulting from the conflict involving the United States/Israel and Iran, whose effects have begun to significantly impact expectations for energy, fuel, insurance, freight, and commodity prices.

14. According to the World Bank, in its April 2026 Commodity Markets Outlook, energy prices are projected to increase by 24% in 2026, the largest increase since Russia's invasion of Ukraine in 2022. The same report projects a 16% increase in overall commodity prices, driven by energy, fertilizers, and high prices for various metals.

15. Reuters also recorded impacts of the conflict on the Strait of Hormuz and on international oil prices, reinforcing the existence of significant risks for fuels, logistics chains, international insurance, and global trade.

16. These elements are relevant to the present contract, as railway tracks are intensive goods in steel, energy, heavy transport, fuels, insurance and, in many cases, international production chains. Thus, the definition of the reference value must consider the risk of market variations during the bidding phase, the formalization of the Agreement and its validity.

17. In this context, the exclusive adoption of the updated value of the previous NF-e could underestimate the estimated value of the contract, since the update by the sectoral index of basic metallurgy does not fully capture the prospective effects of maritime freight, oil, international insurance, exchange rates, steel availability and geopolitical instability.

18. On the other hand, the adoption of SICRO/DNIT as a reference value does not imply contracting for the maximum estimated value. The wide dissemination of the tender notice and the competitiveness among the participants in the bidding process tend to ensure that the most advantageous proposal is obtained for the Public Administration, especially considering that the bidding procedure will allow competition between suppliers and the presentation of discounts on the reference value.

VI – JUSTIFICATION FOR ADOPTING SICRO/DNIT AS THE MAIN REFERENCE

Reasoning	Justification
Official Basys	SICRO/DNIT is the official cost reference system applied to transport infrastructure.
Technical compatibility	There is a specific item for the object: M2202 – TR57 rail in carbon steel – C = 12 m.
Traceability	The source has a code, base date, unit, and objective description of the material.
Budgetary prudence	The value considers an official technical reference in a scenario of economic and logistical instability.
Validity of the Agreement	The supplier must maintain the conditions registered during the validity of the Price Registration Record, ordinarily up to 12 months.
Competitiveness	The wide dissemination of the tender and the competition between bidders may generate discounts and ensure the best price for the Administration.

12. Although the previous process demonstrated a significant difference between the SICRO value and the value actually obtained in the Minutes, it is understood that, at present, the international situation recommends a more conservative approach in defining the reference value.

13. The updated NF-e remains incorporated into the analysis as an element of comparison, reasonableness control and acquisition history, but should not prevail over the official SICRO/DNIT reference in view of the economic and logistical risks currently identified.

VII – CONCLUSION

14. In view of the above, it is concluded that the price estimate for this contract should adopt as the main reference value the SICRO/DNIT – Pernambuco – January/2026, code M2202 – TR57 rail in carbon steel – C = 12 m, at a unit value of R$ 9,821.0559/t.

15. For the quantity of 741.82 tons of TR-57 rails, the total estimated value of the contract is:

Description	Quantity	Unitary Value Adopted	Total estimated value
TR57 rail in Carbon Steel – C = 12 m	741,82 t	R$ 9.821,0559/t	R$ 7.285.455,69

16. NF-e (electronic Invoice) No. 157198, referring to the previous acquisition of TR-57 rails by CBTU, was used as a complementary reference. Its original unit value of R$ 7,562.20/t, updated to January 2026 by the IPA-OG/DI index – Basic Metallurgy, resulted in R$ 7,502.33/t.

17. Although the updated value of the NF-e (electronic invoice) is lower than the SICRO/DNIT, it is understood that its adoption as the main parameter is not recommended in the present case, considering that it is a specific previous contract and that the current international situation presents significant risks related to energy, fuels, maritime freight, insurance, exchange rates, steel and other commodities.

18. It should also be noted that the adopted SICRO reference date, January 2026, precedes the escalation of the conflict involving the United States/Israel and Iran, so the official value used does not fully incorporate the subsequent effects of this unstable scenario on global energy, logistics, and commodity costs.

19. Finally, considering that the bidding process will be widely publicized and subject to competition among participants, the adoption of SICRO/DNIT as a reference value preserves the technical security of the estimate, without ruling out the possibility of obtaining a lower price in the dispute, to the benefit of the Public Administration.

20. Thus, the need to present a calculation of the estimated value, indicating the price source adopted, reference code, base date, quantity, unit value, total estimated value, and technical justification for the chosen parameter, as required by Technical Note No. 008-2026/GALIC/P, is considered fulfilled.

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That's all the information to report.

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