

APPOINTMENT OF A MULTIDISCIPLINARY CONSULTANCY COMPANY TO PROVIDE ENGINEERING, PROCUREMENT, CONSTRUCTION MANAGEMENT (EPCM) SERVICES FOR PRASA CAPITAL PROGRAMME EXECUTION AND MODERNISATION PROGRAMME ACCELERATION FOR A PERIOD OF FIVE YEARS.

BID NUMBER: HO/PT/EPCM/216/11/2022





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SCM REQUIREMENTS



CONTACT DETAILS

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- Email address: rmoagi@prasa.com

BIDDER QUERIES MUST BE POPULATED IN ANNEXURE 1 - RFP Clarification FORM

SCM REQUIREMENTS - EVALUATION CRITERIA



EVALUATION CRITERIA	WEIGHTING
Stage 1	Compliance
Stage 1A - Mandatory Compliance	
Stage 1B – Technical Mandatory Compliance	
Stage 1C – Basic Compliance	
Stage 2 - Technical Mandatory Requirements	Technical/Functionality
Technical/Functional Requirements	Threshold of 80%
Stage 3	Price and BBBEE
Price	90
BBBEE	10
TOTAL	100

SCM REQUIREMENTS - STAGE 1A- MANDATORY REQUIREMENTS



	Description of requirement					
а	Completion of ALL RFP documentation (includes ALL declarations and Commissioner of Oath signatures required)					
b	Signed Joint Venture, Consortium Agreement or Partnering Agreement (whichever is applicable)					
С	The National Industrial Participation Programme Form (SBD5) must be completed and duly signed.					
d	FOR TENDER NUMBER: HO/PT/EPCM/216/11/2022 In compliance with the Preferential Procurement Regulation requirement of subcontracting 30% of the Works, PRASA requires a Memorandum/da Of Understanding from the Bidders to reflect the names of companies that it intends subcontracting to, the nature of the works to be subcontracted and contract % that will be subcontracted to the respective companies and the terms and conditions of the relationship between the Bidder and subcontracting companies. NB: The report containing the list of potential sub-contractors has been drawn and may be accessed through the following link: www.csd.gov.za and the relevant					
	Required Professionals Services: Project Management Services: Architectural Services; Quantity Surveying Services; Civil Engineering Services; Structural Engineering Services; Mechanical Services; Electrical Engineering Services; ICT Services; Cuality Management Services; Risk Management Services; Electrical Engineering Services; ICT Services; Cuality Management Services; Risk Management Services; Enterprise Supplier Development (ESD) Services; Enterprise Support Services (project admin, project support and configuration); Industrial Engineering Services; Procurement and Contract Services;					
	 Electronic Services; Perway Services; Electrical Services (OHTE); Signalling Services; Iand surveying Services Fire Services; Construction Engineering; Cost Engineering Services; Project Documentation Management Services (Document Controller, Project Information and drawing Management); and Training management system (Employee Training 					

Project Engineering Services

Telecoms Services;

Platforms and Training Tool).

SCM REQUIREMENTS - STAGE 1B – TECHNICAL MANDATORY REQUIREMENT



Description of requirement

- **a** Bidders shall submit a valid proof of professional registration with the following Professional Bodies: -
 - 1. The Engineering Council of South Africa (ECSA) is the statutory body for engineering profession in South Africa;
 - 2. The South African Council for the Project and Construction Management Professions (SACPCMP) is a juristic person established by Section 2 of the Project and Construction Management Professions Act (Act No.48 of 2000);
 - 3. The South African Council for the Architectural Profession (SACPLAN) is a professional organisation for the architectural community in South Africa; and
 - 4. The South African Council for the Quantity Survey Profession (SACQSP) Act 2000 (Act No.49 of 2000); and
 - 5. South African Council for Planners (SACPLA) is a professional organization for the Planners in South in terms of the Planning Profession Act, 2002 (Act 36 of 2002).
 - 6. The South African Council for Natural Scientific Professions (SACNASP) Act of 2003.
 - 7. The South African Geomatics Council (SAGC) Profession Act 19, 2013

SCM REQUIREMENTS - STAGE 1B - TECHNICAL MANDATORY REQUIREMENT COMPS tech

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	Description of requirement	
b	Proof of Compliance with qualification and registration requirements. Profes 1. Portfolio/ Program Manager/ Team Leader with ECSA (Pr Eng/ Pr Tech Eng 2. Project Managers with SACPCMP (Pr CPM) and ECSA (Pr Eng/ Pr Tech Eng 3. Electrical Engineer (OHTE) with ECSA (Pr Eng/ Pr Tech Eng); 4. Electrical Engineer (Domestic Supply) with ECSA (Pr Eng/ Pr Tech Eng); 5. Mechanical Design Engineer with ECSA (Pr Eng/ Pr Tech Eng); 6. Civil Engineer (Civils) Engineer with ECSA (Pr Eng/ Pr Tech Eng);	g) and PMI;
	 Civil Engineer (Structural) Engineer with ECSA (Pr Eng/ Pr Tech Eng); Civil Engineer (Permanent Way) with ECSA (Pr Eng/ Pr Tech Eng); Signalling Engineer with ECSA (Pr Eng/ Pr Tech Eng); Telecommunications / ICT Engineer with ECSA (Pr Eng/ Pr Tech Eng); Electronic Engineer with ECSA (Pr Eng/ Pr Tech Eng); Architect with SACAP (PrArch/ PSAT); Quantity Surveyor with SACQSP(PrQS); Environmental Assessment Practitioner (Registered EAP) with SACNASP Geotechnical Engineer with ECSA (Pr Eng/ Pr Tech Eng); 	NB: No duplication of Professional Technical will be permitted; the scoring of the CV's of Persons will only contone key staff per cat
	16. Transport Engineer (Civil) with ECSA (Pr Eng/ Pr Tech Eng); 17. Land Surveyor/ Engineering Surveyor with SAGC (GPr/ GTg);	

18. Project Engineer (Civil/ Structural and Electrical) with ECSA (Pr Eng/ Pr Tech Eng);

19. Construction Engineer (Civil/ Electrical/ Mechanical) with ECSA (Pr Eng/ Pr Tech Eng);

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SCM REQUIREMENTS - STAGE 1B - TECHNICAL MANDATORY REQUIREMENTS (CONT) technical Division

Description of requirement Cost Engineer (Civil/ Electrical/ Mechanical) with ECSA (Pr Eng/ Pr Tech Eng) or Quantity Surveyor with SACQSP(PrQS); Town Planning Manager with SACPLAN (Professional Planner). 21. Industrial Engineer with ECSA (Pr Eng/ Pr Tech Eng); 22. Construction Health and Safety Manager (CHSM) with SACPCMP; 23. 24. Risk Manager with SACPCMP (PrCHSA); and 25. Project Office Manager (Civil/ Electrical/ Mechanical) with ECSA (Pr Eng/ Pr Tech Eng); Project Planner with PMI (PMI-SP) 26. Cost Controller with ECSA (Pr Eng/ Pr Tech Eng) or SACQSP(PrQS); 27. NB: No duplication of **Professional Technical Staff** will be permitted; the scoring of the CV's of Key

one key staff per category

Persons will only consider

SCM REQUIREMENTS - STAGE 1C - BASIC COMPLIANCE REQUIREMENTS



If you do not submit the following <u>basic compliance</u> documents and should an award be made, these basic compliance documents must be made available within 7 working days, failing which the award will be recalled.

No.	Description of requirement
a)	Letter of Good Standing: COID
b)	Supply SARS Pin
c)	Company registration documents
d)	Copies of Directors' ID documents
e)	CSD supplier registration number

SCM REQUIREMENTS - STAGE 2: TECHNICAL/FUNCTIONALITY



ITEM	CRITERIA	WEIGHT
1.1	Organisational Experience Projects – Project Management	15
1.2	Organisational Experience Projects – EPCM and Professionals Services	20
2.1	Experience of Project Management Staff (based on Submitted CVs)	15
2.2	Experience of Engineering Design Staff (based on Submitted CVs)	20
2.3	Experience of Project Execution and Project Office Support Staff	20
3.0	Project Methodology	10
	TOTAL	100



For: TENDER NUMBER: HO/PT/EPCM/216/11/2022

The formula for calculating price scores is as follows:

A maximum of 90 points is allocated for price. The evaluation for price will be done based on the following:

$$Ps = 90 \left[1 - \frac{Pt - P\min}{P\min} \right]$$

Where:

Ps = Points scored for price of tender under consideration;

Pt. = Rand value of tender under consideration;

Pmin = Rand value of lowest acceptable tender.

Note:

Pricing Evaluation: Only Bidders who have achieved the 80% threshold for Technical evaluation will be evaluated for the Price component which is 90 points of the Evaluation Criteria.

BEE Evaluation: The BBBEE component evaluation is 10points of the evaluation criteria. Bidders will be awarded points based on the level of their BBBEE as per their BBBEE Certificate issued by an accreditated agency approved by SANAS





For: HO/PT/EPCM/216/11/2022

Calculation of points for B-BBEE-RATINGS

B-BBEE STATUS LEVEL OF	NUMBER OF POINTS(90/10
CONTRIBUTOR	SYSTEM)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-Compliant Contributor	0

Joint Ventures and Consortiums:

JVs and Consortiums should submit a joint BBBEE certificate in order to be allocated points as stated above.

NB: Bidders must submit proof of their B-BBEE status level. Bidders failing to submit proof of their B-BBEE status level or are non-compliant may not be disqualified and will score 0 points.

Submit the tender as an original plus 1 copy and an 2 (two) electronic versions for (one in Volume 1 for Stage 1 and 2 evaluations + 1 in Volume 2 for pricing and BBBEE evaluations) which must be contained in CDs or Memory Cards clearly marked in the Bidders name. Bidders are to provide an English translation for documentation submitted in a language other than English.

Tenders must be completed in black ink.

SCM REQUIREMENTS - BID SUBMISSION PROPOSAL FORMAT proposal tech

Submission of Tender documents

- Volume 1 Compliance and Technical proposal
- Volume 2 Financial/Commercial/Pricing Proposal

NB: Please ensure that your Tender Proposal is submitted in 2 parcels clearly labelled with the Bidders name as follows:

- Parcel/Envelope/Box Number 1 Compliance and Technical Proposal
- Parcel/Envelope/Box Number 2 Commercial Proposal which includes your pricing

EPCM SERVICE PROVIDER TIMELINES



Bid issue date	04 November 2022
Online Briefing Session for Bidders	11 November 2022 @ 10h00
Closing date for Questions	25 November 2022
Closing date for Responses	02 December 2022
Closing Date for Submission of final Bid	09 December 2022 @ 12h00
Evaluation of Proposals (Bidders note that PRASA may call for Presentation of bidders offers at any stage of the evaluation process)	TBA
Appointment of the successful Bidder	TBA

TENDER CLOSING DETAILS



HO/PT/EPCM/216/11/2022 (EPCM) - Closing Date and Time: 09 December 2022 @12H00

- Place for all four tenders: 30 Wolmarans Street, Braamfontein, Johannesburg
- There will be a tender proposal submission register which has to be completed by all the bidders depositing the tenders
- Bidders who submit their proposals through Courier Services must ensure that their package is clearly labelled with the bidder name outside the package so that PRASA and the courier service driver is able to complete the submission register properly



TECHNICAL REQUIREMENTS

SCOPE OF SERVICES - BACKGROUND



The execution of Capital Programme and Modernisation Acceleration must be aligned with PRASA's Corporate plan 2021/2024 and focuses on the following key points pertaining to strategic objectives over the MTEF period:

- Pillar 1: Drive stability of leadership and skilled, capable and performing workforce;
- Pillar 2: Recover Rail and Autopax performance;
- Pillar 7: Modernise rail through manufacturing, infrastructure development and maintenance

NB: Refer to Annexure 5 - PRASA Corporate Plan 2021-24

The objective of this project is to expedite the implementation of modernisation programme and infrastructure recovery project/ programme with priority focus on fencing, signalling, perway and station upgrades.



CAPITAL PROGRAMME STATUS QUO

Summary of PRASA's Capital Programme status:

- An inadequate maintenance regime and quality of maintenance work and planning;
- Delayed modernisation programme to improve the passenger and rail experience;
- An inefficient and ineffective procurement process and capital programme execution including procurement processes that have long lead times; and
- Technical capacity to implement capital programme and engineering function (maintenance); and
- Lack of information systems (old and obsolete systems).



TYPICAL PRASA CAPITAL PROGRAMME / PROJECTS

Project Type	Definition	Examples
Maintenance	Projects that are established to keep the infrastructure operable or extend the life of the infrastructure or assets	Station improvements and upgrades Network improvement KZN Flood Priority Corridors Recovery
Mega Projects	High Risks projects with minimum capital requirements that exceed R1bn Projects driven by Return on Investment	Motherwell Passenger Rail Corridor Moloto Corridor Blue Down Rail Link Daveyton – Etwatwa Rail Corridor Umngeni Business Park
Engineering and Technology	Specialised Engineering projects that are bringing new equipment, machinery, and technology into the business	Station Modernization Programme Depot Modernisation Programme Signalling Programme (GP, KZN, WC) Depot and Corridor Fencing Projects 120 km/h Perway & Electrical Programme
ICT	ICT enabling projects which including procurement of software, hardware, and licenses	ICT related Projects: ticketing, SAP, Communication, and marketing Integrated stations asset management systems.



PILLAR 1: PROJECT MANAGEMENT SERVICES

The appointed service provider is expected to render the following services in support of Pillar 1:

- 1. Project Management Services including developing of "Fit for Purpose" PLP Manual for managing Portfolio, Programme and Projects for all projects right across PRASA divisions;
- 2. Executing Strategic Portfolio Projects Management (Station Modernization Projects/ Programme) at various stage and rendering the following services:
 - Stages 1& 2 Compile concept design, studies and assessments;
 - Stage 3 Compile the preliminary and detailed design report and drawings;
 - Stage 4 Compile the BOQ and technical specifications; and
 - Stage 5 Execute the construction and do monitoring and quality assurance;
 - Stage 6 Close out the contract and works.
- 3. Develop Enterprise Supplier Development (ESD) Plan covering Job Creation, Job Preservation, Skills Development, SMME Creation and SME Incubation.
- 4. Create technical in-house capacity by providing training to capacitate Project Managers (towards professional registration) and Project Management Office (PMO) Staff/ personnel.

PILLAR 2: RECOVER RAIL INCLUDING RS DEPOTS

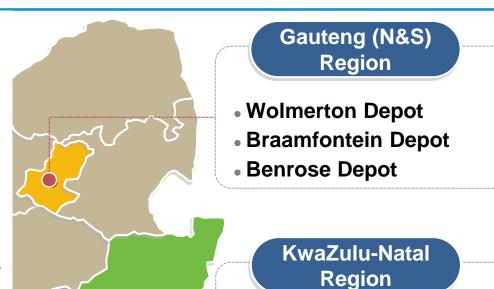


This pillar covers:

- PRASA Rail (Metrorail commuter Services) rail-related assets in the metropolitan areas in Cape Town, Gauteng, Ethekwini, Port Elizabeth and East London, serving 471 railway stations;
- Long distance passenger rail services (MLPS = Main Line Passenger Services) rail-related assets between the major cities, including regional passenger rail services. MLPS covers 21 routes between major destinations in South Africa.
- 3. Other Pillar 2 indicator include upgrading Seven (7) main rolling stock depots modernised to adequately accommodate the EMU train fleet

Western Cape Region

- Salt River Depot
- Paarden Eiland Depot
- Culemborg Yard



Springfield Depot

Durban Yard

Eastern Cape Region

New Depot EL & PE

PILLAR 2: RECOVER RAIL INCLUDING RS DEPOTS: METRO REGIONS

The top 10 corridors identified for Metrorail based on the highest number of commuters and busiest stations (super core and core stations) are:

1. Gauteng infrastructure recovery priority lines:

- (a) North Corridor: Mapopane Pretoria;
- (b) East Corridor: Johannesburg-Leralla;
- (c) West Corridor: Naledi-Johannesburg;
- (d) North Corridor: Piernaarspoort Pretoria; and
- (e) North Corridor: Mapopane Pretoria.

2. Western Cape infrastructure recovery priority lines:

- (a) Cape Town-Cape Flats
- (b) Cape Town-Simon's Town
- (c) Central line

3. KwaZulu-Natal infrastructure recovery priority lines:

- (a) Corridor: KwaMashu/Bridge City line;
- (b) Corridor: Umlazi line;
- (c) Corridor: Crossmoor line;
- (d) Corridor: Kelso line; and
- (e) Flood Priority Corridors (Umlazi,

KwaMashu, and South Coast).

PILLAR 2: RECOVER RAIL INCLUDING RS DEPOTS: CORRIDOR WORK

Rail recovery programme is aimed at rehabilitating railway infrastructure and preventing a reoccurrence of the current situation through an integrated approach that includes all elements required for the train service to be reinstated. This includes:

- (a) Rehabilitating the OHTE;
- (b) Rehabilitating substations;
- (c) Rehabilitating stations;
- (d) Designing and constructing walling;
- (e) Constructing street-to-street pedestrian bridges; and
- (f) Implementing the resignalling programme.

PILLAR 2: RECOVER RAIL INCLUDING RS DEPOTS: EPCM SERVICES

- Project Management Services (PLP, planning, execution, controlling, and closing);
- Architectural Services (station buildings, offices, and industrial facilities);
- Quantity Surveying Services;
- Civil Engineering Services (urban planning, roads, stormwater/ drainage, coastal).
- Structural Engineering Services (bridges, commercial and industrial buildings)
- Mechanical Services (both domestic services and lifting equipment);
- Electrical Engineering Services (low voltage/ domestic supply);
- Electronic Services and Electrical Services (OHTE/high voltage and Sub-stations);
- Perway Services;
- Signalling Services and Telecoms Services; and
- Environmental services.



PILLAR 2: RECOVER RAIL INCLUDING RS DEPOTS: DEPOT PROJECTS

Project Description: Depot Modernisation

- 1. Upgrade existing maintenance sheds and workspaces;
- 2. Construct new maintenance running & lifting sheds;
- 3. Construct a shed to accommodate wheel lathe machine;
- 4. Construct a new component maintenance workshop;
- 5. Construct a new rolling stock material warehouse;
- 6. Construct a new depot office building & train ops staff facility;
- 7. Construct a new local train control facility;
- 8. Construct a new parking facility for employees and visitors;
- 9. Construct a new security building with access control system;
- 10.Construct new waste facilities & Upgrade all services.



Location: Wolmerton, Braamfontein, Paarden Eiland, Benrose etc.

NETWORK EXPANSION AND RELATED ENGINEERING SERVICES

Undertake Greenfields, brownfields and corridor expansion plans:

- 1) Hammanskraal Pretoria;
- 2) Siyabuswa Pretoria;
- 3) Motherwell Gqeberha;
- 4) Umdantsane East London;
- 5) Lanseria Johannesburg;
- 6) Conclude the study on connecting Emfuleni and Khayelitsha; and
- 7) Integrated ticketing systems.
- 8) Capacity studies to accommodate demand; and
- 9) A prioritized list of rail service and network expansion interventions



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Typical Benefits/Impact

- New 'flagship' stations as a design precedent for new stations in South Africa for PRASA.
- Multi-use railway station and commercial development, concourse is well connected to public spaces on either side of the railway line

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SAMPLE DEPOT FACILITIES AND EQUIPMENT





VOLUME 2: SCHEDULE OF PRICES (LUMP SUM)



PRICING SCHEDULE: THE LUMP SUM SCHEDULE OF PRICES FOR THE SERVICES OF DEVELOPING PROJECT LIFECYCLE PROCESS (PLP) MANUAL DEVELOPMENT AND ENTERPRISE SUPPLIER DEVELOPMENT (ESD) IS PRESENTED IN TABLE BELOW:

NO.	DESCRIPTION	RATE	PRICE (EXCL. VAT)
1.1	Development Project Lifecycle Process (PLP) Manual for	Lump	
	managing PORTFOLIO and PROGRAMME (including Printing	Sum	
	100 Copies, Portfolio/ Programme Management Tools &		
	Techniques, Resources, and Training Aids)		
1.2	Development Project Lifecycle Process (PLP) Manual for	Lump	
	Managing PROJECTS covering ECSA Stage 1 - 6 including	Sum	
	Printing 300 Copies, Project Management Tools & Techniques,		
	Resources, and Training Aids)		
2.0	Enterprise Supplier Development (ESD) covering the following	Lump	
	Job Creation, Job Preservation, Skills Development, SMME	Sum	
	Creation and SME Incubation.		
	LUMP SUM Sub-total excluding VAT		30

VOLUME 2: SCHEDULE OF REMUNERATION RATES



PRICING SCHEDULE: SUMMARY OF 5-YEAR PRIORITIZED PRASA INFRASTRUCTURE PROJECTS TO GUIDE THE BIDDER WHEN COMPUTING IN THE SCHEDULE OF RATES ARE PRESENTED IN TABLE BELOW:

Item No	Project Description - Nature of Work	Estimated Cost of Works (Rand) - 5- year	Comment
1	Rail line Doubling and Infra Upgrade (120	R4,000,000,000.0	Civil Engineering, Formation,
	km)		trackwork and drainage
2	Trackwork and Platform Rectification	R6,000,000,000.0	Multi-disciplinary, all engineering
	Programme (120 km)		disciplines
3	Depot Modernization Programme	R3,000,000,000.0	Multi-disciplinary incl. ICT/ CCTV
4	Fencing Programme	R7,000,000,000.0	Buildings - Multi-disciplinary
5	Electrical Programme	R1,000,000,000.0	Electrical including Substations
6	Perways and Structures Programme	R700,000,000.0	Rail and Structures (Pedestrian and Roads/ Rail Bridges), Civil
7	Station Modernisation Projects	R3,190,000,000.0	Station and commercial centres
8	Signalling and Telecommunications	R15,000,000,000.0	Resignalling and Optical
	Programme		Transmission Network including
			turnouts replacement (Perway)
	Grand Total	R39,890,000,000.0	

VOLUME 2: SCHEDULE OF REMUNERATION RATES



PRICING SCHEDULE: PROPOSED PERSONNEL (SAMPLE) AND RATES FOR VARIATIONS TO THE SERVICES ARE PRESENTED IN TABLE BELOW:

Role No	Project Role Description	Mock Hours	Rate (R/Hour)	PRICE (EXCL. VAT)
1.00	Project Management (PM) Staff Rates:			
1.01	Portfolio/ Program Manager/ Team Leader with ECSA/ PMI	160		
1.02	Civil Project Manager with SACPCMP and ECSA	160		
1.03	Assistant Civil Project Manager	160		
3.28	Procurement Assistant	160		
3.29	Document Controller	160		
3.30	Project Support Coordinator	160		
3.31	Office/Admin assistants	160		
	Professional Services Fe	es Sub-tot	al (Excluding VAT)	
	Schedule of Prices (LUMP SUM/ Table 1.1) Sub-total (Excluding VAT)			
	Total (Professional Services + Schedule of Prices) Excluding VAT			
	VAT @ 15%			
		32		

VOLUME 2: SCHEDULE OF REMUNERATION RATES



- 1. Estimated Fee (less anticipated reimbursable expenses) in the Schedule of Rates must be consistent with the Guideline for Services and Processes for Estimating Fees for Registered Persons in terms of the Engineering Profession Act, 2000 (Act 46 of 2000. In addition, maximum hourly rates for Government work can be obtained from the Department of Public Service and Administration (DPSA).
- 2. Fees must include standard disbursements (i.e., computers, laptops, software, cellular and data facilities).
- 3. The above project is a once off procurement but will be executed over five years. To cater for the long contract period, a CPI based contract price adjustment will be allowed for.
- 4. All mock hours (values) are subject to change (increase or decrease) depending on the requirements of the project and rates of remuneration will be subject to negotiation in line with paragraph 4.7 of National Treasury Instruction No. 02 of 2016/2017. However, the rates submitted by the tenderers on tendering will determine the rates of remuneration.
- 5. The overall annual cost ceilings per year for this bid is estimated to be R300,000,000.00 exclusive of travel and subsistence disbursements.



THANK YOU