NTPC LTD						
<u>Central Procurement Cell, EOC, NOIDA</u> VENDOR ENI ISTMENT FOR O&M WORKS PACKAGE ON PAN NTPC						
	BASIS					
1	CEG No.	MGR-04				
2	Brief description of CEG	Supply, Stacking and Spreading of ballast for Railway Track (MGR)				
3	Responsibility Centre	CPC				
4	Brief scope of work	Supply, Stacking and Spreading of Ballast for Railway Track (MGR):				
		Scope of Work:				
		<ol> <li>The scope of work under this contract includes Supply, Transportation, stacking and spreading of Machine crushed stone ballast of 65mm size at MGR track for MGR track by road transportation</li> </ol>				
		2. The ballast is to be stacked at MGR Station or at the identified locations and as per instruction of EIC.				
		3. The stacked ballast is to be spread up/boxed up/dressed up on the entire length of NTPC MGR track, as per requirement /instruction of EIC.				
		<ol> <li>All work shall be done as per provision of technical specification, BOQ and instruction of EIC</li> </ol>				
		Specifications for Track Ballast				
		1. Basic quality: Ballast should be hard, durable and as far as possible angular along edges/ corners, free from weathered portions of parent rock, organic impurities and inorganic residues.				
		2. Particle shape: Ballast should be cubicle in shape as far as possible. Individual pieces should not be flaky and should have generally flat faces with not more than two rounded / sub rounded faces.				
		3. Physical properties: Ballast sample should satisfy the following physical properties in accordance with IS: 2386, Pt. IV-1963 when tested as per procedure.				
		a. Aggregate abrasion value - 30% Maximum				
		b. Aggregate impact value - 20% Maximum				
		c. The water absorption tested as per IS: 2386 Pt.III -1963 should not be more than 1%.				
		4. Size and gradation: Ballast should satisfy the following size and gradation.				
		(i) Retained on 65 mm square mesh sieve - 5% Maximum				
		(ii) Retained on 40mm square mesh sieve - 40% to 60%				
		(iii)Retained on 20 mm square mesh sieve - Not less than 98% for machine crushed ballast.				
		5. Oversize Ballast				
		<ul> <li>(i) Retention on 65mm square mess sieve:</li> <li>A maximum of 5% ballast retained on 65mm square mesh sieve shall be allowed and no deduction in payment shall be done.</li> </ul>				
		• In case ballast retained on 65mm sieve exceeds 5% but does not exceed 10%, payment at 5% reduction in contracted rate shall be made for the full stack. Stack having more than 10% retention of ballast on 65mm sieve shall be rejected.				
		(ii) If ballast retained on 40mm square mesh sieve (machine crushed case only) > 60%, payment at the reduced rates shall be made				

	•	for the full stack in addition to the 5% reduction in contracted rates sieve is between 60% (excluding 10% reduction in contracted rates sieve is between 65% (excluding	ne reduction worked out above. s if retention on 40mm sq. mesh g) and 65% (including) s if retention on 40mm sq. mesh g) and 70% (including).
	(iii)	In case of retention on 40 mm the stack shall be rejected.	square mess sieve exceed 70%,
6.	Unders	ize ballast:	
	The bal	last shall be treated as under size a	and shall be rejected if:
(i) (ii)	Retentio Retentio crushed	on on 40mm sq. mesh sieve is less on on 20mm sq. mesh sieve is	than 40%. less than 98 % (for machine
7.	Method	l of Sieve Analysis:	
	(i)	The following tolerance in the si nominal size sieves size shall be	ze of holes for 65, 40 and 20mm permitted.
	65m	m square mesh sieve	± 1.5mm
	40m	m square mesh sieve	± 1.5mm
	20m	m square mesh sieve	± 1.0mm
	(ii)	Mess sizes of the sieves sho measurement. The screen for square mesh and shall not be le in breadth and 10 cm in height o	buld be checked before actual sieving the ballast shall be of ss than 100 cm of length, 70cm n sides.
	(iii)	While carrying out sieve analysis inclined but held horizontally and of ballast retained on the screen they pass through but should not	sis, the screen shall not be kept ad shaken vigorously. The pieces can be turned with hand to see if be pushed through the sieve.
	(iv)	The percentage passing through determined by weight only.	or retained on the sieve shall be
8.	Method	of measurement:	
	Stack M	leasurement:	
	(i)	Stacking shall be done on a ne good drainage. The height of s The height shall not be more t shall not be less than 1.0m. Top the ground plane. The side slop than 1.5:1 (Horizontal: Vertical shall normally be not less than 3	eat plain and firm ground with tack shall not be less than 1m. han 2.0 m. Top width of stack of stack shall be kept parallel to es of stack should not be flatter ). Cubical content of each stack 0M3 in plane area.
9.	Samplin	ng and Testing:	
	In orden norms s (9.1). M for measures stacks t (9.2) Th value laborato (9.3) In norms s (9.3.1) Abrasic NTPC. specific contract any of t (9.4) D follows	er to ensure supply of uniform of shall be followed in respect of sam finimum three samples of ballast asurement done on any particula o be measured are less than three. he test viz. determination of Size of and water absorption should ory/NTPC approved lab on charges order to ensure supply of uniform shall be followed in respect of sam On supply of the first 100 cur on value, Impact value and water a Further supply shall be accepted of ations for these tests. NTPC resist at this stage itself in case the base hese specifications. puring supply of ballast subseque	quality of ballast the following pling, testing and acceptance. for sieve analysis shall be taken ar date.even if the numbers of f ballast, Abrasive value, impact be got done through NTPC able basis. a quality of ballast, the following pling, testing and acceptance. n, the tests for size gradation, bsorption shall be carried out by only after this ballast satisfies the erves the right to terminate the allast supply fails to Confirm to ent tests shall be carried out at

		S1.	Description	Supply in stacks	-		
		А	Test	For each stack of volume less than 100M3	For each stack of volume more than 100M3		
		1	Size & Gradation	Tests			
			No. of Tests	One for each Stack	One for each Stack		
			Size of one sample	0.027M3	0.027M3 for every 100 cum or part thereof.		
		2	Abrasive value, In	mpact value & Water abs	orption tests		
			Testing Frequency	One of every 2000M3			
			Size of one sample	25 Kg			
		9	9.4.1) The sample	should be collected u	sing a wooden box of internal		
		dimensions 0.3m x 0.3m x 0.3m from different part of stack. 9.5) the above shall be done for the purpose of maintaining quality during					
		S	upply. In case the t	est results not being as p	till suitable corrective action is		
		t S	aken and supplies e	nes shall be suspended	the suitable confective action is		
		ģ	0.6) The above test	s may be carried out mo	ore frequency if warranted at the		
		ć	liscretion of EIC.		1		
		9	0.7) All tests for ab	rasion value, Impact valu	e, Flakiness and water absorption		
		С	conducted subseque	ent to award of contract s	shall be done as per Field Quality		
		F	Plan.				
		Othe	r details of works	shall be given in tender	document.		
2.	Technical Qualifying requirements	The of m	applicant should achine crushed s	have executed the Sup stone ballast along Ra	pply, Transportation & Spreading ilway track as per RDSO/Indian		
		application.					
		Note	-The combined a	ctivity of "Supply an	d Transportation" and activity "		
		Spreading" of machine crushed stone ballast along Railway track					
		RDSO/Indian Railway specifications through rail/road" should be executed					
		into	one or multiple W	Vork Orders.			
	Document to be	Rel	evant PO copy	and Client's Comp	letion Certificate/RA bill/Final		
	submitted by Vendor	Dev	viation Statemer	nt and other certifi	cate/documents as mentioned		
	in support of	else	ewhere.				
	meeting QR						

<u>NTPC LTD</u> <u>Central Procurement Cell, EOC, NOIDA</u> VENDOR ENLISTMENT FOR O&M WORKS PACKAGE ON PAN NTPC BASIS				
	CEG No.	MGR-04		
6	Additional	Other Documents to be submitted:		
	Documents to be submitted	In addition to the documents required in support of meeting technical requirements as stated above, following documents are required to be submitted by the Applicants applying for enlistment: -		
		1. Three POs of the highest executed values of similar work (see definition at point D-Note below) during previous five years from the date of application. Copy of Invoice / Completion certificate in support of successful execution of supply against the POs is to be submitted.		
		2.Financial statements:		
		2.1 In case of proprietorship and partnership firm having turnover more than 1 crore & Companies incorporated as per Companies act 2013: Audited Financial statements for the previous three completed financial years reckoned from the date of application.		
		2.2 For Proprietorship and partnership firm having turnover less than 1 Crore: Certified copy of Financial statements by a registered practicing Chartered accountant for the previous three completed financial years reckoned from the date of application.		
		2.3 In case the audited financial statements of last financial year are not ready / available, then, certified copy of financial statements by a registered practicing Chartered accountant duly considered/accepted by CEO/CFO/Key Managerial Personnel		
		Note: Financial statements means/includes balance sheet, profit and loss account/income and expenditure account, cash flow statement, statement of changes in equity and any explanatory note annexed to the same.		
		3. Any other documents in addition to the above which the applicant wants to submit.		
		i. 4. NTPC can ask other documents as necessary during the course of evaluation.		
7	NOTES:	1.0 Similar work means: "Supply, Transportation & stacking" or "Supply, Transportation & Spreading" of machine crushed stone ballast along Railway track as per RDSO/Indian Railway specifications through rail/road.		
		2.0 Value means basic value of the PO. Where PO value is composite (i.e. including taxes etc.), the applicant has to give break-up of composite PO value mentioning basic value, taxes etc.		