INDIA LIMITED (A Govt. of India Enterprise) 4, India Exchange Place, Kolkata – 700 001. E-mail: oilcalmn@oilindia.in INVITATION FOR BID NATIONAL COMPETITIVE BID

OIL INDIA LIMITED invites National Competitive Bid through its e-procurement portal – https://etender.srm.oilindia.in/irj/portal for the following items :-

E-Tender No.	Bid Closing Date	ITEM
SKI9220P19/01	23.10.2018	Supply , Installation & commissioning of static wheel road roller

Tender fee (Non – refundable) amount ,Period of sale of documents, Bid Closing / Opening date, the complete bid documents and details for purchasing bid documents, participation in etenders etc. are available on OIL's e-procurement portal https://etender.srm.oilindia.in/irj/portal as well as OIL's website https://etender.srm.oilindia.in/irj/portal as well as OIL's website https://www.oil-india.com/. No separate notification shall be issued in the press. Bidders should regularly visit above website and e-portal to keep themselves updated.

FORWARDING LETTER

Tender No & Date :SKI9220 P19/01
Tender Fee :Rs 1,000.00
Bid Security Amount :Rs. 96,600 /-

Bidding Type :Single Stage Two Bid

Bid Closing on : As mentioned in the e-portal Bid Opening on : As mentioned in the e-portal

Performance Guarantee : Applicable

Delivery Required : At DULIAJAN, ASSAM

OIL invites Bids for **Supply**, **Installation & Commissioning of 4(four) nos. Static wheel road rollers through** its E-Procurement site under **SINGLE STAGE TWO BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/CALCUTTA/E-01/2016. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area - > Tender Documents.

The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and details uploaded under Technical RFX.

The tender will be governed by:

- For technical support on various matters viz. Online registration of vendors, Resetting of Passwords, submission of online bids etc, vendors should contact OIL's ERP-MM Department at following: Tel. No.s = 0374-2807178, 0374-2807171, 0374-2807192. Email- id = erp mm@oilindia.in.
- b) "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).
- c) Technical specifications with Quantity and BEC/BRC and Price bid format as per <u>ANNEXURE</u> <u>AAA, ANNEXURE BBB and ANNEXURE CCC</u> respectively.
- d) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area > Tender Documents.
- e) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).
- f) Bidder are advised to fill up the Undertaking of authenticity of information/documents submitted (Annexure- K), Technical evaluation sheet (Annexure DDD), Technical bid check list (Annexure EEE), Response sheet (Annexure FFF) and Bank Details (Annexure GGG) given in this bidding document uploaded in Technical RFx -> External Area > Tender Documents. The above filled up documents to be uploaded in the Technical RFX Response.
- g) Amendments to the NIT after its issue will be published on OIL's website only. Revision, clarification, addendum, corrigendum, time extension etc. to the tender will be hosted

on OIL website only. No separate notification shall be issued in the press. Prospective bidders are requested to visit website regularly to keep themselves updated.

Special Note:

- 1.0 Bidders to take special note of the following conditions:
- 1.1 <u>Against Tender Fee</u> **Payment should be made only through online mode** and no other instrument (Cash/DD/Cheques/Cashier Cheque, etc) will be acceptable.

Vendors who do not have OIL's User ID & password, may generate User ID & password online by the Vendor by using the link for supplier enlistment given in OIL's e-tender portal and then pay Tender Fee on-line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e-portal).

- 1.2 <u>Against Bid Security/EMD/Performance Bank Guarantee</u> **Only payments through online mode or Submission of Bank Guarantee will be acceptable.** No DD/Cheques/Cashier Cheque or any other mode will be acceptable.
- 1.3 A) Bidders submitting bank guarantee as **Bid Security** should note that the bank guarantee issued by the bank must be routed through SFMS platform as per following details:
 - (i) MT 760 / MT 760 COV for issuance of bank guarantee
 - (ii) MT 767 / MT 767 COV for amendment of bank guarantee

The above message / intimation shall be sent through SFMS by the BG issuing bank branch to Axis Bank, Corporate Banking Branch, IFSC Code - UTIB0001164. Branch Address - AXIS Bank Ltd, Corporate Banking Branch, 3rd Floor, AC Market, 1, Shakespeare Sarani, Kolkata 700071."

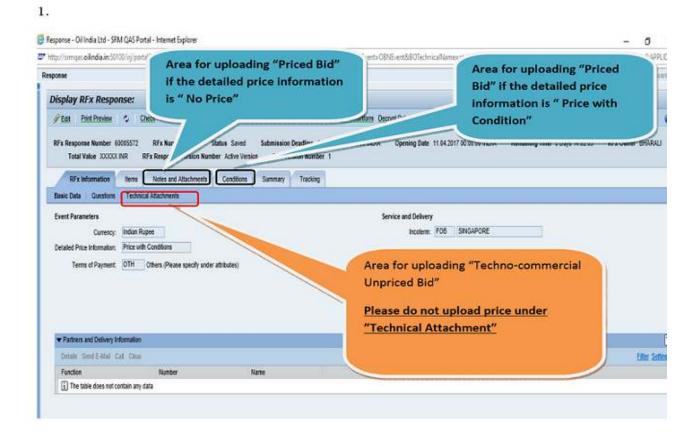
B) The Bidder shall submit to OIL the copy of SFMS message as sent by the issuing bank branch along with the original bank guarantee.

Note: In the event of an order, similar process will be required to be followed by the bidder in case of submission of Performance Security in the form of Bank guarantee.

- 2.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with Tender no. and Due date to **GM-Kolkata Office, Oil India Limited, 4, India Exchange Place, Kolkata 700 001** only on or before the Bid Closing Date and Time mentioned in the Tender.
 - a) Original Bid Security
 - b) Detailed Catalogue (if any)
 - c) Any other document required to be submitted in original as per tender requirement All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate.
- **3.0** Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.
- 4.0 To participate in OIL's E-procurement tender, bidders should have a legally valid Digital Signature Certificate as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (http://www.cca.gov.in). The digital signature should be of Class 3 digital certificate alongwith encryption certificate for the designated individual with organization name. Please also refer "Guideline to Bidder for participating in OIL". All the Bids must be Digitally Signed.

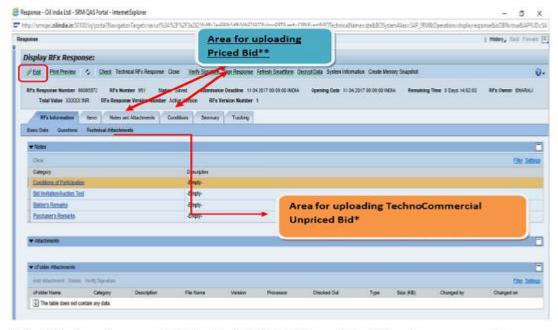
- 5.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
- 6.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. Bidders shall quote accordingly under Single Stage Two Bid System. The bidders are required to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic format in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.
- **6.1** Please ensure that Techno-commercial Bid / all technical related documents related to the tender are uploaded in the Technical Attachment as shown in the screen shot below. The "TECHNO-COMMERCIAL UNPRICED BID" shall contain all techno-commercial details except the prices. Please note that no price details should be uploaded in Technical Attachment.
- 6.2 The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Price Bid format/Priced bid can be uploaded as Attachment in the attachment option under "Notes & Attachments" tab as shown in the screen shot below.

A screen shot in this regard is shown below.



Upload Technical Bid / Price Bid.

 On "EDIT" Mode- The following screen will appear. Bidders are advised to Upload "Techno-Commercial Unpriced Bid" and "Priced Bid" in the places as indicated above:



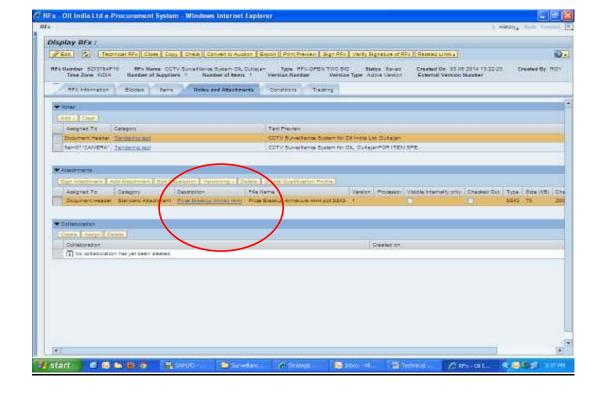
"The "Techno-Commercial Unpriced Bid" shall contain all technocommercial details except the prices.

** Please follow the instructions as per Vendor User Manual for Uploading Price under "Notes and Attachment" or "Condition"

- 6.3 Any Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.
- 6.4 Only the price-bids of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

6.5 Price Breakup/format:

Bidders should submit the price breakup/format of all the items as per "Annexure CCC" which has been uploaded under "Notes & Attachments" > "Attachments" as shown below. The price breakup/format "Annexure CCC" should be filled up, signed and uploaded under "Notes & Attachments" > "Attachments" only. The filled up price breakup/format of all the items should not be uploaded in Technical Attachment.



Please do refer "NEW INSTRUCTION TO BIDDER FOR SUBMISSION" for the above two points and also please refer "New Vendor Manual (effective 12.04.2017)" available in the login Page of the OIL's E-tender Portal.



NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

- 7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
- 8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-BBB**. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (as per **Annexure-BBB**) contradict the Clauses of the tender and / or "General Terms & Conditions" as per Booklet No. MM/CALCUTTA/E-01/2016 for E-Procurement of Indigenous Tenders elsewhere, those in the BEC / BRC shall prevail.

9.0 Please do refer the User Manual provided on the portal on the procedure-How to create Response for submitting offer.

10.0 In order to bid for OIL e-tenders all the vendors are required to obtain a legally valid Digital Certificate Class III [Organization] along with encryption certificate as per Indian IT act from the licensed certifying authorities(CA) operating under the root certifying Authority of India (RCAI), controller of certifying authorities (CCA) of India. Digital Signature Certificate comes in a pair of Signing/Verification and Encryption /decryption certificate. Bidder should have both the Signing/Verification and Encryption /decryption certificate for signing and Encryption, decryption purpose respectively. The driver needs to be installed once, without which the DSC will not be recognized. While participating on e-Tendering the DSC token should be connected to your system.

Encryption certificate is mandatorily required for submission of bid. In case bidder created response with one certificate (using encryption key) and bidder change his Digital Signature Certificate then old certificate (used for encryption) is required in order to decrypt his encrypted response for getting the edit mode of the response. Once decryption is done, bidder may use new DSC certificate for uploading and submission of their offer. It is the sole responsibility of the bidder to keep their DSC certificate properly. In case of loss of the certificate, OIL INDIA LIMITED is not responsible.

- 11.0 For exemption for tender fee, please refer Clause No. 3.3 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).
- 12.0 Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

13.0 In addition to the existing clause of accepting Bid Security and Performance Security in the form of Bank Guarantee in Para No. 8.2 and 9.3 in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders)

to include the below mention point as well:

"#Bank Guarantee issued by a Scheduled Bank in India at the request of some other Non -Scheduled Bank of India shall not be acceptable."

14.0 CLAUSES RELATED TO GST

(A) Taxes:

- i. For the purposes of levy and imposition of GST, the expressions shall have the following meanings:
- (a) GST means any tax imposed on the supply of goods and/or services under GST Law.
- (b) Cess means any applicable cess, existing or future on the supply of Goods and Services as per Goods and Services Tax (Compensation to States) Act, 2017.
- (c) GST Law means IGST Act 2017, CGST Act 2017, UTGST Act, 2017and SGST Act, 2017and all related ancillary Rules and Notifications issued in this regard from time to time.
- ii. The rates quoted by the bidders shall be inclusive of all taxes, duties and levies. However, bidders are required to provide separately the rate and amount of all types of taxes, duties and levies. In case, the quoted information related to various taxes, duties and levies subsequently proves wrong, incorrect or misleading, OIL will have no liability to reimburse the difference in the duty/tax, if the finally assessed amount is on the higher side and OIL will have the right to recover the difference in case the rate of duty/ taxes finally

assessed is on the lower side. Further, bidders have to clearly show the amount of GST separately in the Tax invoices. Further, it is the responsibility of the bidders to make all possible efforts to make their accounting / IT system GST complaint in order to ensure availability of Input Tax Credit (ITC) to Oil India Ltd.

- iii. Offers without giving any of the details of the taxes (including rates and amounts) as specified above will be considered as inclusive of all taxes including GST. When a bidder mentions taxes as extra without specifying the rates and amount, the offer will be loaded with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/ contracts will be binding on the bidder.
- iv. Bidder is required to pass on the benefit arising out of introduction of GST, including seamless flow of Input Tax Credit, reduction in Tax Rate on inputs as well as final goods by way of reduction of price as contemplated in the provision relating to Anti-Profiteering Measure vide Section 171 of the CGST Act, 2017. Accordingly, for supplies made under GST, the bidder must confirm that benefit of lower costs has been passed on to OIL by way of lower prices/taxes and must also provide details of the same as applicable. OIL reserves the right to examine such details about costs of inputs/input services of the bidder to ensure that the intended benefits of GST have been passed on to OIL.
- v. Statutory variation (increase/decrease) of GST within the contractual delivery period will be to the account of OIL subject to documentary evidence. However, any increase in statutory levy after the expiry of the scheduled date of delivery shall be to the supplier's account.
- vi. Bidder agrees to do all things but not limited to providing GST compliant Tax Invoices or other documentation as per GST law relating to the supply of goods and/or services covered in the instant contract like raising of and /or acceptance or rejection of credit notes / debit notes as the case may be, payment of taxes, timely filing of valid statutory Returns for the tax period on the Goods and Service Tax Network (GSTN), submission of general information as and when called for by OIL in the customized format shared by OIL in order to enable OIL to update its database etc. that may be necessary to match the invoices on GSTN common portal and also for claiming input tax credit in relation to any GST payable under this Contract or in respect of any supply under this Contract.
- vii. In case Input Tax Credit of GST is denied to OIL or demand is recovered from OIL by the Central / State Authorities on account of any non-compliance by Bidder/Supplier, including non-payment of GST charged and recovered, the Bidder/Supplier shall indemnify OIL in respect of all such claims of tax, penalty and/or interest, loss, damages, costs, expenses and liability that may arise due to such non-compliance. OIL, at its discretion, may also withhold/recover such an amount demanded and recovered by the authorities/ state authorities from the pending payments of the Bidder/Supplier.
- viii. GST liability, if any on account of supply of free samples against any tender/purchase order (wherever applicable) shall be to bidder's/ supplier's account.

Yours Faithfully,

Sd-(Aparajita Gogoi) Sr. Manager Materials (P) For GM-Kolkata Office

Annexure - AAA

TECHNICAL SPECIFICATIONS WITH QUANTITY

SLNO & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUAN TITY	UOM
10 0C000487	Supply of 4(four) nos. "STATIC WHEEL ROAD ROLLERS" with cabin having operating weight of 8 TON (minimum) powered by a Diesel Engine. Detail description is given in the annexure- DDD	4	NOS
20	INSTALLATION & COMMISSIONING	1	AU

Note:

- 1.0 In case of supply, Maximum Allowable Delivery period should be 20 weeks after receipt of PO .Bidder to confirm the same while quoting.
- 2.0 Installation and Commissioning should be done within 1 (one) month after receipt of site clearance form OIL. Bidder to confirm the same while quoting.
- 3.0 The bidder must submit the offer in the attached format i.e. annexure-DDD by duly filling up the "Bidder's Remarks" column (extra sheet if required may please be attached).

Annexure-BBB BID REJECTION & BID EVALUATION CRITERIA

The bid must conform to the specifications and terms and conditions given in the enquiry. Bids shall be rejected, in case the item(s) offered do not conform to the required minimum/maximum parameters stipulated in the technical specifications and to the respective national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected.

I) BID REJECTION CRITERIA (TECHNICAL)

1.0Technical Criteria:

- 1.1 The bidder or their OEM shall be an Original Equipment Manufacturer (OEM) of the Tendered Item or shall be an authorized Agent/dealer / distributor/supply house of an Original Equipment Manufacturer. In case bidder is an authorized Agent / dealer / distributor / supply house of an Original Equipment Manufacturer then bidder has to submit valid authorization letter / dealership certificate from the principal (OEM). Copy of authorization certificate from the principal (OEM) shall be submitted along with the technical bid.
- 1.2 (i)The bidder must have experience of successfully executing at least one (1) purchase order of value of minimum Rs 24,13,056/- for supplying, testing & commissioning of STATIC WHEEL ROAD ROLLERS having minimum operating weight of 8 TON or above in previous (05) Five years reckoned from the original bid closing date.

OR

1.2 (ii) The Bidder must have experience of Successfully executing at least one purchase order of supply, testing & commissioning of at least two (2) numbers of STATIC WHEEL ROAD ROLLERS having minimum operating weight of 8 TON or above in previous five (05) years reckoned from the original bid closing date.

Notes to Clause 1.2(i) & 1.2(ii)

- i) The purchase order should be issued from any one of the following:
- a) Central/State Govt. Organization
- b) Public Sector Undertaking
- c) Public Limited Companies
- (ii) In case the bidder is not an OEM, then the experience of the OEM of the respective bidder shall be taken into consideration. Documentary evidence in that regard must be submitted along with the offer, failing which the offer will be rejected.
- (iii) The bidder shall submit following documents in support of his previous supply experience as applicable
- a) Copy(ies) of Purchase Order(s) / Contract document(s) and
- b) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) / contract(s) -
 - Completion report / performance certified from the clients,
 - Bill of lading./ Consignment note
 - Delivery challan / invoice etc.
 - Any other documentary evidence that can substantiate the successful execution of each of the Purchase Order(s) / contract(s) cited above.
- iv) If the prospective bidder is executing work which is still running and the contract value executed as on the original bid closing date is equal to or more than the minimum prescribed value in the BEC such experience will also be taken in to

consideration provided that the bidder has submitted satisfactory work execution certificate issued by end user.

v) Work executed by a bidder for its own organization / subsidiary will not be considered as experience for the purpose of meeting BRC.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

B) BID REJECTION CRITERIA (FINANCIAL):

- 1.0 Annual Financial Turnover of the bidder during any of preceding three financial / accounting years from the original bid closing date should be at least Rs 24,13,056/-
- 1.1Net worth of bidder must be positive for preceding financial/ accounting year.
- Note: (a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:
 - i) A certificate issued by a practicing Chartered Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE B

OR

- ii) Audited Balance Sheet along with Profit & Loss account."
- b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

C) BID REJECTION CRITERIA (COMMERCIAL):

1.0 Bids are invited under **Single Stage Two Bid** System. Bidders shall quote accordingly under Single Stage Two Bid System. **Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid.** The "Unpriced Bid" shall contain all techno-commercial details except the prices, which shall be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions. Bidder not complying with above submission procedure will be rejected. Technical RFx Response folder is meant for Technical bid only. Therefore, No price should be given in Technical RFx Response folder, otherwise the offer will be rejected.

The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" bid through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

1.1 In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID should contain details

as mentioned in the technical specifications as well as BEC/ BRC , technocommercial details including quantity offered except prices which shall be kept blank and upload the same in the Technical RFx Response-> User - > Technical Bid. No price should be given in above Technical Rfx otherwise the offer will be rejected. Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFx Response-> User - > Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments". Priced bids of only those bidders will be opened whose offers are found to be techno-commercially acceptable.

- 2.0 **Bid security of Rs. 96,600** /- shall be furnished as a part of the TECHNICAL BID (refer Clause No. 8.0 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders)). A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.
- 2.1 For exemption for submission of Bid Security, please refer Clause No. 8.16 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).
- 2.2The Bank Guarantee towards Bid Security shall be valid upto 21.05.2019
- 3.0 Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. Validity of the performance security shall be valid for 90 days beyond contract period/duration and applicable warranty/guarantee/defect liability period (if any). **Bidder must confirm the same in their Technical Bid**. Offers not complying with this clause will be rejected.
- **4.0** The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.
- 5.0 Validity of the bid shall be minimum 120 days from the Bid Closing Date. Bids with lesser validity will be rejected.
- **6.0** Bids containing incorrect statement will be rejected.
- **7.0** No offers should be sent by Telex, Cable, E-mail or Fax. Such offers will not be accepted.
- **8.0** All the Bids must be Digitally Signed using "Class 3" digital certificate (ecommerce application) with Bidder's organization name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate with Bidder's organization name, will be rejected.
- 9.0 The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.
- 10.0 Bidders are required to submit the summary of the prices in their Commercial (Priced) bids as per bid format (Summary), given in **Annexure CCC** below:

Price Bid Format

	Item No.		
	HSN Code		
	Basic material Value (Unit Rate)		
	Quantity		
A.	Total Basic Material Value (Unit rate x Quantity)		
В.	Pre-despatch /Third party Inspection charges, if any		
C.	Packing and forwarding charges, if any		
D.	Total Ex-works value (A+B+C)		
E.	GST on (D)		
F.	Compensatory Cess, if any		
G.	Total FOR Despatching Station Value (D+E+F)		
Н.	Freight Charges upto destination		
I.	GST on freight charges		
J.	Insurance charges inclusive of GST		
K.	Training Charges, if any		
L	GST on training charges		
M	Installation & Commissioning Charges, if any		
N	GST on I & C charges		
Ο	AMC charges, if any		
P	GST on AMC charges		
Q	Total FOR Destination Value		
	(G+H+I+J+K+L+M+N+O+P)		

Gross weight of the total consignment:
Gross volume of the total consignment:
Name of Despatching Station:
Delivery Period:
Validity::
Payment terms:
Name of original manufacturer::
Other terms if any::

Name of Bidder
Full Name:
Address:
Date:

Note:

- 1. Bidders must quote Freight Charges upto destination specified in tender. In case bidder fails to quote inland freight charges, highest freight quoted by the other bidder (considering pro-rata distance) against this tender or OIL's estimated freight, whichever is higher, shall be loaded to their offer for comparison purpose.
- 2. Inspection Charges (Ref. B), Training Charges (Ref. K & L), I&C Charges (Ref M & N) and AMC Charges (Ref. O & P) are to be quoted wherever specifically asked for in the tender.
 - 3. Other clauses on Goods & Service Tax shall be applicable as incorporated elsewhere in this tender.

II) BID EVALUATION CRITERIA

The bids conforming to the specifications, terms and conditions stipulated in the enquiry and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria mentioned below:

- **1.0** The evaluation of bids will be done as per the Price Schedule (SUMMARY) detailed vide Para 10.0 of Bid Rejection Criteria.
- 2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 3.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be done on FOR Destination basis, subject to corrections / adjustments given herein.
- **4.0** In case any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) mentioned here contradict the Clauses in the General Terms & Conditions of the Tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

COMMERCIAL CHECKLIST (To be filled up and submitted along with the bid)

Tender no.	
Bidder's name	

		COMPLIANCE BY BIDDER		
SL. NO.	BEC / TENDER REQUIREMENTS	Indicate 'Confirmed'/' Not Confirmed'	Indicate Corresponding page ref. of unpriced bid or	
	Confirm that validity has been offered as per NIT.(120 days from BC date).			
2	Confirm that Bid Security / Earnest Money has been submitted as per NIT (Wherever Applicable)?			
	Confirm that original bid bond guarantee has been submitted in format MENTIONED IN NIT.			
3	Confirm that you shall submit Performance security (in the event of placement of order) (Wherever Applicable)?			
4	Confirm that duly signed Integrity Pact has been submitted as per NIT (Wherever Applicable)?			
5	Confirm that you have submitted documentary evidence as per BRC Technical			
6.1	Confirm that you have submitted proof of annual turnover and net worth certified by a chartered accountant (with membership number and Firm registration number).			
6.2	Confirm that you have submitted affidavit/undertaking (wherever applicable) as mentioned in bid rejection criteria (financial) in annexure -BBB			
7	Confirm that the offers and all attached documents are digitally signed using Class 3# digital certificate (ecommerce application) in Organization Name issued by an acceptable Certifying Authority (CA) as per Indian IT. Act 2000.NIT.			
8	Confirm that you have not taken any exception/deviations to the NIT.			
9.	Confirm that the product offered strictly conform to the technical specifications.			
10	Confirm that the prices offered are firm. (Conditional offer shall be liable for rejection.)			
11.	Confirm that you have submitted undertaking of authenticity of information/documents as per annexure- K			

NOTE: Please fill up the greyed cells only.

Bidders Response Sheet- Annexure FFF

	s response sheet- Annexure FFF	
	Tender No.	
	Bidders Name	
SI	Description	Remarks
1	Place of Despatch	
2	Whether Freight charges have been included in your quoted prices	
3	Whether Transit Insurance charges have been included in your quoted	
4	Make of guoted Product	
5	Offered Validity of Bid as per NIT	
6	Bid Security Submitted (if applicable)	
	Details of Bid Security Submitted to OIL (if applicable)	
	a) Bid Security Amount (In Rs):	
	b) Bid Security Valid upto:	
7	Whether you shall submit Performance Security in the event of	
	placement of order on you (if applicable)	
8	Integrity Pact Submitted (if applicable)	
	Delivery Period in weeks from placement of order	
	Complied to Payment terms of NIT (if applicable) otherwise to	
	Standard	
11	If bidder is MSE whether you have quoted your own product	
	If bidder is Small scale unit , whether you are owned by SC/ST	
	If Bid security submitted as Bank Guarantee, Name and Full Address of	
	Issuing	
	Bank including Telephone, Fax Nos and Email id of branch manager	
	bank metading receptione, rax ross and Email to or branch manager	
14	Confirm that the Bid Security submitted (In case of Bank Guarantee) is in	
	toto as per format provided in the bidding document.	
	toto as per format provided in the bidding document.	
15	Bid Security if Not submitted, reasons thereof	

NOTE: Please fill up the greyed cells only.

(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETER HEAD) (ALL FIELDS ARE MANDATORY)

Tender No.	•
Name of Beneficiary	:M/s
Vendor Code	
Address	•
Phone No. (Land Line)	
Mobile No.	
E-mail address	
Bank Account No. (Minimun	n
Eleven Digit No.)	
Bank Name	•
Branch	•
Complete Address of your	•
Bank	•
IFSC Code of your Bank	
a) RTGS	
b) NEFT	
PAN	
VAT Registration No.	•
CST Registration No.	•
Service Tax Registration No.	
Provident Fund Registration	·
I/We confirm and agree tha	t all payments due to me/us from Oil India Limited can b ntioned account directly and we shall not hold Oil Indi
The street contract the street of the street	

e Limited responsible if the amount due from Oil India Limited is remitted to wrong account due to incorrect details furnished by us.

Counter Signed by Banker: Office Seal Signature of Vendor **Seal of Bank:**

Enclosure: Self attested photocopies of the following documents-

- 1) PAN Card
- 2) VAT Registration Certificate
- 3) Service Tax Registration
- 4) CST Registration
- 5) Provident Registration Certificate
- 6) Cancelled cheque of the bank account mentioned above (in original).
- 7) Bank Statement not older than 15 days on the date of submission.

Annexure-K

Format of undertaking by Bidders towards submission of authentic information/documents (To be typed on the letter head of the bidder)

Ref. No	Date
	of information/documents submitted
Ref: Your tender No.	Dated
To, The General Manager-Kolkata Offic Oil India Limited Kolkata	e
Sir,	
With reference to our quotation again fraudulent information/documents ha	nst your above-referred tender, we hereby undertake that no ave been submitted by us.
We take full responsibility for the above cited bid.	submission of authentic information/documents against the
information/documents submitted by	age of the tender/contract agreement, in case any of the us are found to be false/forged/fraudulent, OIL has right to forfeiture of our EMD and/or PBG and/or cancel the award penal action on us, as deemed fit.
Yours faithfully, For (type name of the firm here)	
Signature of Authorised Signatory	
Name:	
Designation:	
Phone No.	
Place:	
Date:	
(Affix Seal of the Organization here,	if applicable)

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR LETTER HEAD

TO WHOME IT MAY CONCERN

This is to certify that the following finance	ial positions extracted from the audited financial
statements of M/s	(Name of the Bidder)for the last
three (3) completed accounting years	upto(as the case may be) are
correct.	

YEAR	TURN OVER In INR (Rs)	NET WORTH In INR (Rs)
	(כא) איוו ווו	ווו וואר (עט)
Place:		
Date:		
Seal:		
Membership No		
Registration Code:		
Signature:		





SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
I.	Scope	Supply, testing and commissioning of 4(four) nos. "STATIC WHEEL ROAD ROLLERS with cabin having operating weight of minimum 8 TON powered by a Diesel Engine developing adequate power for performing efficient and economical operations, capable for compaction of premix asphalt to achieve required density and should be complete with all standard equipment, tools, accessories and canopy, as per recommendations of OEM. The item should be brand new and unused. The STATIC WHEEL ROAD ROLLERS will be extensively used for the construction of OIL's various operational roads.	
II.	Basic parameters	(i) Nominal Weight (minimum): 8 Tones (unballasted) (ii) IS Standard: IS: 5502:1988 (Re-affirmed 2008) (iii) Number of forward gear: 4(four) nos. (iv) Number of reverse gear: 4(four) nos. (v) Engine Details: Water cooled Diesel Engine	
III.	The Road Roller shall be complete with following (Standard Fitments):	a) The Road Roller shall be equipped with heavy Automotive double acting single plate quick release type clutch. Electrical and hand crank starting arrangement, safety requirement as per IS: 5502-1988 (Reaffirmed 2008) complete with accessories as shown under General Technical Requirements.	
	,	b) Gear Box: As per clause No 10 of IS5502:1988 (Re-affirmed 2008)	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		c) Fuel System: The Fuel Tank shall be of sufficient capacity to provide a minimum of 8 hours running in Full load. The Filling orifice shall be fitted with a removable filter and shall be of such size and so placed that, filling by Jerri cans, without the aid of funnel, presents no difficulty. A hand operated semi rotary pump to be provided with each road roller for filling of fuel. A captive filler cap shall be provided for the filling orifice and the method used for venting the tank to atmosphere shall be such that no fuel spillage occurs, when the machine is travelling with the tank completely full. The draw off from the fuel tank to the engine shall leave 5 percent dead volume below it at any operating angle up to 12 degree. A plug shall be provided for completely draining the tank. A fuel gauge or dip stick calibrated in liters, shall be fitted to the tank.	
		d) Electric Starting Battery of 12V and of minimum 135 Ah capacities at 20 hour, rating of reputed make.	
		e) Cold staring arrangement for starting at -30 DEG C. f) Instruments: Ammeter, oil pressure gauge, oil temperature gauge, water	
		g) Awning: Suitable robust steel awning with heat insulating lining to be provided	
		to protect the operator from the sun and the rain. End and side curtains shall be provided. h) Driver's seat: An adjustable and comfortable seat to be provided for the driver	
		such that operator shall have clear vision at all side of the machine from his sitting position.	
		i) Water sprinkler and tanks with sprinkling system: Water sprinkling system shall to be provided for front and rear rolls with separate controls. Minimum capacity of the water tank shall be 200Ltrs.	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		j) Pressure balancing arrangement: Suitable Pressure balancing device as per IS IS: 5502:1988 (Re-affirmed 2008)	
		k) Scrapper: Scrapper as per Clause No 18.2 of IS:5502-1988 (Reaffirmed 2008)	
		l) Tool Box and Instruction Manual: A strong Tool box with lock and key containing necessary tools for normal running adjustments and lubrication of machine to gather with Instruction manual, operator manual along with maintenance schedule and inventory of Tools shall be provided along with the roller. A spare part books also to be supplied as per cl.23.1. of IS: 5502:1988 (Re-affirmed 2008)	
		m) Lifting jack of minimum 10 tons capacity.	
		n) Lifting and towing arrangement: Road Roller shall be fitted with a suitable means at only the rear end of the road roller for towing purpose.	
		o) Lubrication: Adequate lubrication of all moving parts shall be provided keeping the maintenance schedule as simple as possible.	
		p) Painting/ Finishing: All exposed parts of the road roller to be painted with suitable anti-corrosive protective paint.	
		q) Marking: Each Road roller shall have Rating Plate firmly attached to some part which will not be easily removable. The plate shall have clearly marked on it following information: a. Year of Manufacture; b. Manufacture's name and Address;	
		c. Machine Reference No; d. Engine Make & Serial No, bhp and rev/min;	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		e. Roller Sizes; f. Diameter of the Rolls; and g. Line pressure under the Rolls with and without ballast.	
		r) Safety Requirements: a. Safety guards for moving parts shall to be provided. The parts which are exposed to atmosphere and liable to become defective due to dust shall be covered suitably. b. Reflector at front and rear, at near and off side of the roller, shall be provided to show the presence of the roller at night, to the other vehicle using the road. c. Two traveling electric light one at front and one at rear end of the roller shall be provided.	
		s) Following control system shall be provided and easily accessible to the operator: Starting and stopping arrangement for the prime mover; Parking brake lever; Forward or reverse clutch; Pedal Brake; Water Sprinkler Valves; Accelerating lever; Hand Steering Wheel; Differential Lock; Heater button for cold starting;	
		t) Engine Details : Water cooled Diesel Engine with standard accessories with Battery and electric starter. Diesel Engine shall conform to IS 10000 (Series-1980 constant speed type and IS: 10002/1981 (Reaffirmed 2006) incorporating amdt. No1 &2). Type test certificate of the engine shall be produced at the time of inspection. Engine emission, if applicable for the road roller shall be governed by the emission standard applicable as on BCD of the tender.	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		u) Working Condition:	
		Maximum Temperature : 48 DEG C Minimum Temperature : 05 DEG C Maximum Humidity at 21 Deg C : 100 % at 35 Deg C : 95 % at 41 Deg C : 70% Maximum Altitude above sea level : 150 meter	
IV.	SPARE PARTS	1) Bidder should have to confirm the availability of all the spares for the complete Equipment with accessories for minimum 10 years from the date of delivery of materials.	
		2) The bidder has to supply all the FILTERS required for 1(one) year regular operation and maintenance of the equipment from the date of commissioning , as MANDATORY SPARES along with the complete package (The cost of the same to be included in the main offer):	
V.	INSPECTION AND TESTING	1) The complete unit shall be inspected and tested at manufacturer's works / factory by a team of OIL's Engineers prior to dispatch. Intimation for inspection of complete unit must be sent to OIL at least 15 days in advance. Any modification suggested during inspection shall be carried out by supplier at no additional cost. Supplier shall affect dispatch of the unit to OIL, Duliajan only on receipt of OIL's dispatch advice. The Road Roller is to be supplied F.O.R OIL India Limited, Duliajan, District- Dibrugarh, Assam. The Road Roller shall be unloaded at Civil Engineering Department of OIL India Limited, Duliajan, District- Dibrugarh, Assam.	
		To and fro fares, boarding/ lodging and other en-route expenses of OIL's Inspection team for carrying our inspection shall be borne by OIL. 2) A draft copy of Composite Operating Instructions of the complete Equipment Set- with description and illustration of engine, power flow process and controls	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		shall have to be submitted to OIL's inspection team during the time of pre- dispatch inspection for approval.	
VI.	TEST CERTIFICATES	The supplier shall have to submit detailed records and certificates of the foregoing tests to the purchaser. The certificates/records shall have to be supplied in quadruplicate and those for electrical equipment shall have to be endorsed suitable for use in the climatic conditions specified.	
VII.	PACKING	The packing/boxes shall be sufficiently robust to withstand rough handling. And water proof lined to prevent transit damage.	
VIII.	DOCUMENTS TO BE ATTACHED WITH THE FINAL SHIPMENT	The following documents [at least 03 bound sets (if not specified otherwise	
		along with the supply of the equipment	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page)
			(Attach Separate Sheet if necessary)
		# Dimensional drawing	
		# Detailed power & control wiring diagram	
		# Bill of materials of all components.	
		# Technical literature, brochure, leaflets/catalogue etc. if any.	
		# Composite O&M manual of the main unit covering all sub-systems.	
		# Part Manual for Engine and other hydraulic component of the equipment.	
		# All test certificates for tests done at manufacturer's works for control panel,	
		hydraulic components and complete unit.	
		# Guarantee certificate for the equipment Guarantee shall be for 12 months after	
		commissioning of ROAD ROLLER or 18 months after supply, whichever is	
		earlier.	
		# List of recommended spares for two years including part nos. and descriptions.	
IX.	Documents to be	1.0 Technical Brochure/catalogue of offered make and model of item.	
	submitted along	2.0 Technical data sheet.	
	with the bid.	3.0 All the documents as stipulated in the tender.	
Х.	INSTALLATION AND	Installation and Commissioning of the equipment (4. Nos.) shall be carried out	
	COMMISSIONING OF	by the bidder in the presence of OIL representatives at Civil Engineering	
	UNIT	Department of OIL India Limited, Duliajan, Assam (India). Services of qualified	
	&	and competent personnel from equipment manufacturer are essential during	
	TRAINING	installation and commissioning of the equipment.	
		Installation / commissioning & Training charges should have to be quoted	
		separately which shall be considered for evaluation of the offers. These charges	
		should include amongst others to and fro fares, boarding/lodging and other	
		expenses of the commissioning engineers during their stay at Duliajan, Assam	
		(India). Bidders should also confirm about installation/ commissioning in the	
		Technical Bid.	
		The equipment will be treated as successfully commissioned after satisfactory	
		load performance trial is demonstrated at any available OIL's field site along with	
		submission of all documents and all spares as per Purchase Order.	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		A training is to be provided to OIL's personnel for smooth operation of the equipment at Duliajan, Assam at no extra cost charges/cost to OIL. Such training shall be undertaken immediately after successful commissioning of the ordered static wheel road roller at Duliajan. Training charge if any to be quoted by bidder separately.	
XI.		1) The warranty period for the unit and ancillary equipment should be a minimum of 18 months from the date of dispatch/ shipment or 12 months from the date of commissioning of the equipment whichever is earlier. Any defects in the equipment during warranty period shall be replaced by the supplier at his cost without any extra charge to OIL	
XII.	BID REJECTION CRITERIA(BRC) / BID EVALUATION CRITERIA (BEC)	BID EVALUATION CRITERIA (BEC): (A) The bid must conform to the specifications and terms and conditions given in the enquiry. Bids shall be rejected, in case the item(s) offered do not conform to the required minimum/maximum parameters stipulated in the technical specifications and to the respective national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected. FINANCIAL CRITERIA:	
		1.0 Annual Financial Turnover of the bidder during any of preceding three financial / accounting years from the original bid closing date should be at least Rs. 24,13,056/-	
		1.1Net worth of bidder must be positive for preceding financial/ accounting year.	
		2.0Considering the time required for preparation of Financial Statements, if the	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying that 'the balance sheet/Financial Statements for the financial year (as the case may be) has actually not been audited so far'. Note: (a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:- i) A certificate issued by a practicing Chartered Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE – B. OR ii) Audited Balance Sheet along with Profit & Loss account." b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same. Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.	(Attuch separate sheet if necessary)



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		Technical Criteria: 1.1 The bidder or their OEM shall be an Original Equipment Manufacturer (OEM) of the Tendered Item or shall be an authorized Agent/dealer / distributor/ supply house of an Original Equipment Manufacturer. In case bidder is an authorized Agent / dealer / distributor / supply house of an Original Equipment Manufacturer then bidder has to submit valid authorization letter / dealership certificate from the principal (OEM). Copy of authorization certificate from the principal (OEM) shall be submitted along with the technical bid.	
		1.2 1.2 (i)The bidder must have experience of successfully executing at least one (1) purchase order of value of minimum Rs . 24,13,056/- for supplying, testing & commissioning of STATIC WHEEL ROAD ROLLERS having minimum operating weight of 8 TON or above in previous (05) Five years reckoned from the original bid closing date. OR 1.2 (ii) The Bidder must have experience of Successfully executing at least one purchase order of supply, testing & commissioning of at least two (2) numbers of STATIC WHEEL ROAD ROLLERS having minimum operating weight of 8 TON or above in previous five (05) years reckoned from the original bid closing date.	
		 Notes to Clause 1.2(i) & 1.2(ii) i) The purchase order should be issued from any one of the following: a) Central/State Govt. Organization 	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
		b) Public Sector Undertaking	
		c) Public Limited Companies	
		(ii) In case the bidder is not an OEM, then the experience of the OEM of the respective bidder shall be taken into consideration. Documentary evidence in that regard must be submitted along with the offer, failing which the offer will be rejected.	
		 iii) The bidder shall submit following documents in support of his previous supply experience as applicable a) Copy(ies) of Purchase Order(s) / Contract document(s) and b) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) / contract(s) - Completion report / performance certified from the clients, Bill of lading./ Consignment note Delivery challan / invoice etc. Any other documentary evidence that can substantiate the successful execution of each of the Purchase Order(s) / contract(s) cited above. 	
		iv) If the prospective bidder is executing work which is still running and the contract value executed as on the original bid closing date is equal to or more than the minimum prescribed value in the BEC such experience will also be taken in to consideration provided that the bidder has submitted satisfactory work execution certificate issued by end user. v) Work executed by a bidder for its own organization / subsidiary will not be considered as experience for the purpose of meeting BRC.	
		Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.	



SI no	Description	Specifications	Bidder's Remarks (To be duly signed and stamped on each page) (Attach Separate Sheet if necessary)
XIII.	DATA SHEETS		
		The bidder's to furnish following information of the offered Road Roller	
		along with the offer:	
		I. Unballasted weight;	
		II. Water, sand, etc., ballasted weight;	
		III. Forward and reverse speed;	
		IV. Specification of engine;	
		V. Specification of Gear Box	
		VI. Line pressure on front and rear rolls;	
		VII. Rolling width;	
		VIII. Diameter of rear roll;	
		IX. Width of rear roll;	
		X. Diameter of- front roll;	
		XI. Width of front roll;	
		XII. Wheel base;	
		XIII. Overlap of rolls;	
		XIV. Length;	
		XV. Height with awning or cab;	
		XVI. Turning radius - Inner and turning	
		radius - Outer;	
		XVII. Turning space;	
		XVIII. Fuel tank capacity;	
		XIX. Sprinkler tank capacity;	
		XX. Hydraulic oil tank capacity, if used; and	
		XXI. Capability for negotiating gradient specifying	
		the surfaces.	