

MF

WCL S.O. No. 11100116419026 dt. 20.05.2019 placed on M/s Gen Y Ventures Pvt. Ltd

(Under jurisdiction of Nagpur court only)

WESTERN COALFIELDS LIMITED

(A subsidiary of Coal India Limited & A Government of India Enterprise)



Office of the General Manager(MM) Materials Management Department, Coal Estate, Civil Lines Nagpur 440 001	Ph. PBX : 0712 - 2511381, 2510691 Ext 5824 Fax : 0712 - 2510284 Website : westerncoal.nic.in
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Supply order

Ref no: 11100116419026

date: 20.05.2019

To
M/s Gen Y Ventures Pvt. Ltd
505 & 507, 5th Floor,
Antriksh Bhawan,
22, KG Marg,
New Delhi 110001
Email – corporate@genyventures.in
Mob – 9599051367
Fax - 011-43675857

By regd post with A/D
Vendor Code: 106060
Vendor Category : MSE / Startup

Sub: Supply of GPS sets including installation, testing and commissioning and integration with the existing VTS in WCL command Area along with four years of comprehensive AMC after one year warranty & GPRS services & leased internet services for five years period.

Ref:-

1. This office Tender no. hq-pur-ra-kdp-e-068-2018-19 opened on 07.12.2018
Tender ID - 2018_WCL_120395_1
2. Your Offer dated 05.06.2018 vide Bid ID – 356801

Dear Sir,

With reference to above, we are pleased to place supply order on you for supply of Supply of GPS sets including installation, testing and commissioning and integration with the existing VTS in WCL command Area along with four years of comprehensive AMC after one year warranty & GPRS services & leased internet services for five years period, at prices, terms & general terms and conditions indicated below:

Table 1

NIT Sl. No.	Item Description as per NIT	Quantity per set	Units	Basic (Rs per unit)	Extended Basic (Rs per unit)
1	GPS sets Make: Gen Y Ventures Pvt Ltd Model – IAC 140 CAN	1846	no:s	5000.00	92,30,000.00
2	Installation and commissioning charges for overall system.	1	LS	5,33,494.00	5,33,494.00
3	Recurring expenditure of GPRS charges for 1846 GPS sets for 1st year	1	LS	11,07,600.00	11,07,600.00

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4	Recurring expenditure of GPRS charges for 1846 GPS sets for 2nd year	1	LS	11,07,600.00	11,07,600.00
5	Recurring expenditure of GPRS charges for 1846 GPS sets for 3rd year	1	LS	11,07,600.00	11,07,600.00
6	Recurring expenditure of GPRS charges for 1846 GPS sets for 4th year	1	LS	11,07,600.00	11,07,600.00
7	Recurring expenditure of GPRS charges for 1846 GPS sets for 5th year	1	LS	11,07,600.00	11,07,600.00
8	1st year leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ.	1	LS	1,65,000.00	1,65,000.00
9	2nd year leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ.	1	LS	1,66,325.64	1,66,325.64
10	3rd year leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ.	1	LS	1,65,000.00	1,65,000.00
11	4th year leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ.	1	LS	1,65,000.00	1,65,000.00
12	5th year leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ.	1	LS	1,65,000.00	1,65,000.00
13	Comprehensive Annual Maintenance Contract charges for 1st year after warranty period.	1	LS	14,76,800.00	14,76,800.00
14	Comprehensive Annual Maintenance Contract charges for 2nd year after warranty period.	1	LS	14,76,800.00	14,76,800.00
15	Comprehensive Annual Maintenance Contract charges for 3rd year after warranty period.	1	LS	14,76,800.00	14,76,800.00
16	Comprehensive Annual Maintenance Contract charges for 4th year after warranty period.	1	LS	14,76,800.00	14,76,800.00
Item 1 - total basic cost for complete system					2,20,35,019.64
GST applicable @ 18%					39,66,303.54
Total cost of system including GST					2,60,01,323.18
Less ITC against GST					39,66,303.54
Total cost of system after ITC on GST					2,20,35,019.64

In words – Two crores sixty lakhs one thousand three hundred and twenty three and paisa eighteen only.

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Terms & Conditions :

Clause No.1:- PRICE :- Prices are firm and on_F.O.R. Destination basis and are inclusive of freight, packing & forwarding & Insurance charges. Safe arrival of consignment till consignee stores shall be your responsibility.

Clause No.2: Services :- services to be rendered shall be as under:

a.Recurring expenditure of GPRS charges for 5(five) years shall be payable as per rates indicated in table 1 above and terms & conditions in Annexure I (enclosed)

b.leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ for 5(five) years shall be payable as per rates indicated in table 1 above and terms & conditions in Annexure I (enclosed)

c.CAMC Charges for 4(four) years after completion of guarantee / warranty period shall be payable as per rates indicated in table 1 above.. Detailed terms & conditions of Annual maintenance are enclosed in Annexure I & II

Clause No. 3 : GST : Shall be payable extra as legally applicable within the stipulated delivery period of the contract. Current rate applicable is @ 18%. You shall raise GST compliant invoice enabling WCL to avail input tax credit as per GST rule. The HSN code applicable as indicated by you in your offer is 85171890. The GST invoice shall clearly indicate the 8 digit HSN/SAC code for the ordered items as applicable.

You shall have to comply with the terms and conditions of GST Act/ Rules such as issuance of Tax Invoices, ensure payment of GST and enabling mechanism to facilitate Input Tax credit by WCL. The supplier shall upload the Tax Invoices/Debit Note/Credit Note in GST Portal, make payment of GST and file returns in time, as prescribed under GST Act and Rule to facilitate WCL to avail Input Tax Credit (ITC) as per eligibility under GST. In case WCL is unable to avail ITC or any liability arises to WCL due to failure on the part of supplier to comply the above provisions , the entire amount including Interest (If any) borne by WCL shall be recovered from supplier. You shall make all out efforts to comply with the provisions under GST Act and Rules there under and also shall strive to maintain high compliance rating score under GST during the period of contract with WCL.

GST details of M/s Gen Y Ventures Pvt. Ltd. - 07AAGCG1573R1Z1
GST Details of WCL; 27AACW1578L1ZW

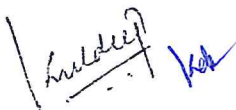
Clause No. 4: Delivery : Delivery of 1846 no:s of GPS sets shall be completed in 3 phases:


- Phase 1 – 868 no:s for deployment within 2 months from the date of issue of supply order.
- Phase 2 – 460 no:s for deployment within three months from the date of issue of supply order.
- Phase 3 – remaining 518 no:s for deployment within four months from the date of issue of supply order.
- Delivery period shall be reckoned from seventh day of order date.

Clause No.5 : ALLOCATION & CONSIGNEE:

CONSIGNEE :

Depot Officer, Central Stores, Tadali
Western Coalfields Limited
At Urjagram, PO: Tadali, Dist: Chandrapur (MS)- 442406
Phone no: 07172- 237076, Fax no: 07172- 237295





Details of vehicles / allocation:

Sl	Description	Majri	Umrer	Nagpur	Wani north	Chandrapur	Wani	Bhallarpur	Pench	Kanhan	Total
1	contractual coal carrying vehicles from mine to siding	20	100	128	125	20	405	40	10	20	868
2	WCL dumpers used for OB in mines	53	0	38	74	78	100	80	0	0	423
3	WCL dumpers used for production	0	0	13	0	24	0	0	0	0	37
4	Contractual dumpers used for OB	98	0	27	15	115	150	70	16	20	511
5	Contractual dumpers used for production	0	0	7	0	0	0	0	0	0	7
	Total requirement	171	100	213	214	237	655	190	26	40	1846

Clause No. 6 : PAYING AUTHORITY:- General Manager (Fin), WCL, HQ,
Coal Estate, Civil Lines,
Nagpur – 440 001

Clause No.7: TERMS OF PAYMENT:-

For Capital item no: 1 & 2

- 100% payment shall be made within 21 days after receipt and acceptance of material at consignee stores and receipt of satisfactory installation, commissioning, training and handover report issued by HOD (E&T) WCL HQ or his authorized representative or date of submission of bills whichever is later.
- Payment shall be made only on submission of confirmed security deposit & performance Bank Guarantee and acceptance of same by WCL.

For revenue item no: 3 to 16

- For CAMC Charges and Recurring Charges: Shall be payable on quarterly basis at the end of each quarter after commissioning and integration of the entire system. CAMC Charges shall be payable within 21 days of receipt of bills and satisfactory performance report from GM(E&T)WCL HQ.
- Recurring charges shall be payable at the end of each quarter after successful installation, commissioning and integration which will be certified by GM(E&T),WCL HQ. However usage charges if any prior to commissioning of total system shall also be paid alongwith the First Bill.

Bank Details of the firm:

Name of the Bank and Branch	Bank of India, Parliament Street Branch
Address of the Branch of the Bank	PTI Building, Parliament Street, New Delhi-110001
Account Number	601620110000501
Nature of Account	Current
IFS Code of the Branch	BKID0006016

Clause No.8: SUBMISSION OF BILLS:-

- a) Pre-receipted and stamped GST compliant invoice of each material with taxes and duties and other charges shall be submitted in "QUADRUPLICATE" to the consignee along with following documents:
1. Packing list in original list giving details of bill of materials, if applicable. (Invoice should be strictly as per GST laws 2017)
 2. Consignment note in original/RR/PWB in original.

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3. Eway bill (If applicable) – In the event the delivery of goods by the supplier is on FOR destination basis, the movement of the goods is to be initiated by the supplier and the supplier is liable to issue e-way bill.
4. Manufacturer's test certificate as per technical specifications.
5. Warranty/Guarantee certificate.
6. Delivery challan in original.
7. Buyer's copy of invoice in original signed by authorised signatory
8. SD / Performance Bank Guarantee copy
9. You shall submit technical write up and technical literature / brochure of GPS devices including integration with the existing VTS in support of justification of various features / parameters / specifications of the system to meet the requirement stipulated in this document.
10. Any other documents required as per technical specifications & enclosed Annexure I or indicated elsewhere in the order.

Note:- Copy of each of the above bill(s) along with copies of each documents must be submitted to the GM(MM) I/c WCL, HQ, Nagpur-440,001.

Clause No.9: INSPECTION:-

Final Inspection shall be carried out by the consignee at destination / stores.

Clause no. 10: GUARANTEE/WARRANTY:- You shall give composite guarantee / warrantee of satisfactory performance of the complete equipment (along with accessories) for a period of 12 months from the date of commissioning or 18 months from the date of receipt and acceptance of stores by consignee whichever is earlier. A certificate to this effect shall be submitted by you. In case of any failure under warranty, it will be the responsibility of the supplier to collect the items failed under warranty and deliver the replacement / Repaired item(as per warranty /guarantee terms) Free of Cost up to the user/ consignee end.

Clause No. 11 Performance Bank Guarantee :

You shall have to furnish PBG for a total amount of Rs. 26,00,133.00 (Twenty six lakhs one hundred and thirty three only) valid for 5 (five) years and 6(six) months from the date of commissioning to cover the Guarantee / Warranty and AMC period) in the form of Demand Draft or Bank Guarantee of any scheduled / Nationalized bank in the format enclosed at Annexure III (i.e. 10 % of the order value of the equipment along with accessories, Recurring expenditure of GPRS charges for 5 years, leased internet services of 5 Mbps bandwidth (1 : 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ for 5 years and CAMC charges for 4 years arrived at by adding all the taxes and duties applicable, to the FOR Destination price). No payment will be made without submission of the performance bank guarantee. The same shall be as per format provided along with the supply order.

Clause No. 12 : Security Deposit:- You shall have to furnish the security deposit for a total amount of Rs. 26,00,133.00 (Twenty six lakhs one hundred and thirty three only) in the form of Demand Draft or Bank Guarantee of any scheduled / Nationalized bank_in the format enclosed at Annexure III (i.e. for 10% (ten percent) value of the awarded contract (landed value) without having any ceiling) within 15 days time from the date of supply order. The BG shall be valid for a minimum period of 6(Six) months from the date of issue in order to cover the delivery period.

- The bank guarantee issued by the banker of the firm shall be operational for all purposes at Nagpur branch (Maharashtra).
- The Bank Guarantee issued by the issuing bank on behalf of the supplier in the favour of Western Coalfields Ltd shall be in paper form as well as issued under "Structured financial messaging system". The details of beneficiary for issue of BG under SFMS platform is furnished below:



Name of beneficiary and details	
Name	Western Coalfields Ltd
Area	Head Quarter
Bank A/c No: / Cust ID of beneficiary	ICICI Bank Ltd, Vishnu Vaibhav, 222, Palm Road, Civil Lines, Nagpur
IFSC code	ICIC0000059
Bank Manager Name & Ph no:	Hrushikesh Sakalkale Ph n: +91-9923202096

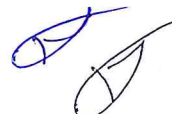
- The original bank guarantee issued by the issuing bank shall be sent by the issuing bank to the following address by Registered post /AD.
General Manager (MM) I/c
Materials Management Wing
Western coalfields Ltd HQ
Coal Estate, Civil lines
Nagpur – 440001
Maharashtra
- Any extension / amendments to the BG shall be done following the same procedure as above.
- In case the successful tenderer fails to deposit the security money, the order shall be cancelled and the case shall be processed to order elsewhere and the firm's performance is to be kept recorded for future dealings with them.
- Security deposit money will be refunded to the firm within 30 days from the date of satisfactory execution of the contract. For unsatisfactory performance and / or contractual failure, the security money shall be forfeited.
- Security deposit may be converted to PBG

Clause No. 13: LIQUIDATED DAMAGES:-

In the event of failure to execute the contract within the stipulated period mentioned in the order and in the event of breach of any of the terms and conditions in the order WCL has the right :-

- a) To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% of the contract value for delay in execution of the contract beyond the delivery schedule (for this purpose part of a unit supplied will not be considered) as aforesaid for each week or part of a week during which the execution may be in arrears limited to 10 %. Where felt necessary the limit of 10% can be increased to 15% at the discretion of GM(MM)-HOD.
- b) To purchase from elsewhere, after due notice to the successful tenderer, on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without cancelling the supply order in respect of consignment not yet due for supply or
- c) To cancel the supply order or a portion thereof, and if so desired, to purchase the store at the risk and cost of the supplier and also
- d) To extend the delivery period with or without imposition of Liquidated Damages as may be considered fit and proper. The penalty if imposed shall not be more than the agreed liquidated damages referred to clause (a) above.
- e) To encash any available Bank Guarantee / security deposit for recovery of the penalty.
- f) Whenever under the contract a sum of money is recoverable from and payable by the supplier, Western Coalfields Limited, shall be entitled to recover such sum by appropriating, in part or whole by deducting any sum or which at any time thereafter, may be due to the successful tenderer in this or any other contract, with Western Coalfields Limited or any of its Subsidiary Company. Should this sum be not





sufficient to cover the full amount recoverable, the successful tenderer shall pay to Western Coalfields Limited, on demand the remaining amount.

g)The supplier shall not be entitled to any gain under this clause.

Clause No. 14 FORCE MAJEURE CLAUSE:- If the execution of the contract / supply order is delayed beyond the period stipulated in the contract / supply order as a result of outbreak of hostilities, declaration of any embargo or blockage, or fire, flood, acts of nature or any other contingency beyond the suppliers' control due to act of God then Western Coalfields Limited may allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by theCIL and its subsidiary companies, the contract / supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

The successful bidder will advise, in the event of his having to resort to this clause, by a registered letter duly certified by the local chamber of commerce or statutory authorities, the beginning and end of the causes of the delay, within fifteen days of the occurrence and cession of such force majeure conditions. In the event of delay lasting out of force majeure, WCL will reserve the right to cancel the contract, and provisions governing termination of contract as stated in the bid documents will apply.

For delay arising out of Force majeure, the bidder will not claim the extension in completion date for a period exceeding the period of delay attributable to the causes of force majeure and neither WCL nor the bidder shall be liable to pay extra cost provided it is mutually established that the force majeure conditions did actually exist.

Clause No.15: PACKING:- Packing as per clause No. 18 of Annexure – II i.e. general terms and conditions.

Clause No.16: LOCATION OF DESPATCH: 505 & 507, 5th Floor, Antriksh Bhawan, 22, KG Marg, New Delhi 110001, M-9599051367

Clause No.17: Price Certificate:- You have undertaken in your offer as under:

"We have not offered the same products at a price lower than that offered in the present order in respect of any other ministry/ department of the Govt. of India or a PSU. In case we offer the lower prices for same items under similar terms within the validity of this offer to ministry/department of the Govt. of India or a PSU, we undertake to notify such reduction to the buyer and the same will also be applicable against this offer."

Clause No.18: Price fall clause : You have undertaken along with your offer that you have not supplied / are not supplying similar products/ systems or sub-systems at a price lower than that offered in the present order in respect of any other ministry/ department of the Govt. of India or a PSU and if it is found that at any stage that similar product/ systems or sub-systems was supplied by you to any other Ministry/ Department of the Government of India or a PSU at a lower price, then at that very price, with due allowance for the elapsed time, will be applicable to the present case and the difference in the cost would be refunded by you to the WCL, if the contract has already been concluded.

Clause No.18: Jurisdiction:- All disputes shall be subject to the jurisdiction of Nagpur court only.

This order shall be governed by enclosed General terms and conditions of supply unless and otherwise specified in the above paragraphs.

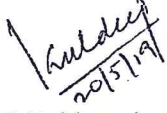
Please acknowledge receipt of the order within 15 days from the date of receipt of this order and return the duplicate copy of the order duly signed and stamped with seal of your company as a token of





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acceptance, otherwise it will be presumed that you have accepted the order for execution as per terms and conditions stipulated above.


20/5/19

(P.Kuldeep)
Deputy Manager (MM)

Yours Faithfully,


20/5/19

(K.S.R.Divakar)
Chief. Manager (MM)

Encl:-

1. Technical specifications - Annexure I
2. Terms & conditions for AMC – Annexure II,
3. Format for SD/PBG – Annexure III
4. General Terms and Conditions of the supply order Annexure - 'IV' .

Indent & Budget Ref :

Sl no:	Item / details / quantity	value (Rs)	Area	Indent ref
1	2200 GPS sets with GPRS charges for 5 years and AMC charges for 4 years after one year warranty period as detailed at page 73/c	625 lakhs	Various	Scheme approved by Dir(Tech)P&P

Capital BC No. FA/WCL/CAP/BC/OPM/12/09/38 dt.14.05.2019 for Rs.1,15,20,923.00 only.

Revenue BC ref:

- 2019-20 – BC/WCL/Rev/GM(E&T)/2019-20/GPRS recurring charges & leased internet services/7/01/119 for Rs.15,01,668.00 dated 17.05.2019
- 2020-21 – BC/WCL/Rev/GM(E&T)/2020-21/GPRS recurring charges & leased internet services/7/01/119 for Rs.32,45,856.00 dated 17.05.2019
- 2021-22 – BC/WCL/Rev/GM(E&T)/2021-22/GPRS recurring charges & leased internet services/7/01/119 for Rs.32,44,292.00 dated 17.05.2019
- 2022-23 – BC/WCL/Rev/GM(E&T)/2022-23/GPRS recurring charges & leased internet services/7/01/119 for Rs.32,44,292.00 dated 17.05.2019
- 2022-24 – BC/WCL/Rev/GM(E&T)/2023-24/GPRS recurring charges & leased internet services/7/01/119 for Rs.32,44,292.00 dated 17.05.2019

CC:

GM/SO(E&M)/Area nodal officer /SO(MM)/ Depot Officer – All areas

GM(QC),GM(P&P),WCL,HQ.,Nagpur.

GM(Fin)/c – Concurrence ref . No. P-75846/3600656 dated 27.04.2019 of Dir(Fin) and approved by CMD dated 02.05.2019


CM(E&M) Plg, CM(MM)Stores,WCL,HQ.,Nagpur

Manager(Fin.)CP,WCL,HQ,Nagpur.

CGM(MM)/ GM(MM), SECL/MCL/NCL/CCL/BCCL/ECL/CIL

a. Shri A.K.Bajaj (IEM)
A-167, Defence Colony
New Delhi – 110024

b. A.K.Mohapatra, IFS Retd (IEM)
Flat no. 201
Manjusha Manor
Plot no. H3/382
IRC village
Bhubaneshwar – 751015


20/5/19

(P.Kuldeep)
Deputy Manager (MM)


20/5/19

(K.S.R.Divakar)
Chief. Manager (MM)

ANNEXURE -I

Schedule of requirement - Supply of 1846 GPS sets including, installation, testing and commissioning and integration with the existing VTS in WCL command Area along with four years of comprehensive AMC after one year warranty & GPRS services for five years period.

Technical specifications:

	<p>a Supplier is required to supply 1846 nos of GPS sets complete with all accessories including all related hardware software, installation, testing and commissioning in Contractual Tippers / Dumpers engaged in transportation of Coal / OB & Departmental Dumpers deployed in transportation of Coal / OB and its integration with the existing Vehicle tracking system in WCL command Area along with four years of comprehensive AMC after one year warranty & GPRS charges for five years period.</p>
<p>General Terms & Conditions</p>	<p>b By submission of bid the Supplier has undertaken in their offer that they have conducted physical survey & feasibility study in all the Areas / sites to ensure GPRS connectivity for assessing the requirement as well as for seamless integration of the same with the existing Vehicle tracking system of WCL and appraise themselves fully on the site condition before submitting their offer</p>
	<p>c During Warranty & CAMC period, the vendor should deploy for smooth operation of the system with onsite support comprising minimum one service engineer in each Area.</p>
	<p>d The devices must use GPS technology for acquiring the position of the vehicle & GPRS technology for transmitting the same to the data base server at WCL HQ with at least 30 secs of data polling.</p>
	<p>e GPS sets shall send GPRS data to the existing Servers installed at WCL HQ, Nagpur & shall be accessed by all the Areas through internet services. The vendor should also provide leased internet services of 5 Mbps bandwidth (1: 1) with redundancy from two different service providers to enable GPRS data transmission to the server at WCL HQ.</p>
	<p>f M/s GEN Y Ventures have undertaken that they are manufacturer of IAC 140 CAN GPS devices and have agreed for providing associate software and its integration with existing VTS of WCL and for provision of comprehensive AMC for four years after one year warranty & spares & service support for five years from the date of commissioning.</p>
	<p>g You have submitted an undertaking to provide comprehensive service support with spares for all the tendered items for 5 years.</p>
	<p>h You must execute a SLA agreement as per the terms & conditions given in Annexure 'II'.</p>
	<p>i You shall impart training of 2 weeks at the site for atleast 5 persons in each Areas of WCL.</p>
	<p>j You shall submit technical write up and technical literature / brochure of GPS devices including integration with the existing VTS in support of justification of various features / parameters / specifications of the system to meet the requirement stipulated in this document.</p>
	<p>k You must submit all the softwares (communication software) used in the system in CD ROM and all manuals for maintenance, administration (2 hard copy & 2 soft copy) at the time of supply</p>
<p>l After the successful installation and implementation of GPS units in contractual Tippers / Dumpers engaged in transportation of Coal / OB and Departmental Dumpers</p>	

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		deployed in Coal / OB, the same shall be maintained (including repair / replacement of the defective GPS sets) by you during the entire period of contract. However if the GPS units are damaged either intentionally or driver's fault (for all Vehicles), or stolen, the repair / replacement cost will be borne by the WCL.	
	m	PBG should be 10 % of the total ordered value including revenue charges, applicable taxes & shall be valid for Five years period	
	n	You shall share API / SDK & other details required for integration with the existing VTS System	
Key Objective, Features and facilities of the existing VTS system of WCL	o	The GPS Devices supplied are to be seamlessly integrated with the existing GPS based Vehicle Tracking System in WCL having the following features & facilities to ensure its proper working :	
	1	Providing the real time tracking of vehicles fixed with GPS-GPRS based VMU (Vehicle Mounted Unit) for tracking along the routes, Sidings, check post, weigh bridges etc.	
	2	Different vehicle locations & routes for tracking the vehicles on GIS Map.	
	3	Showing real time locations of the vehicle, route undertaken & specified way points on the GIS Map.	
	4	Showing total distance travelled, distance travelled between stops, Total time, time taken between stops, time taken during a trip, stoppage reports with round trips travelled by vehicle. Stoppage time, number of Automatic event logging (viz. start and end of trip(s), emergency halts, breakdown of vehicles etc.) with time.	
	5	Alerts on unauthorized stoppage and / or non-stoppage of the vehicles at designated vehicle stops/weighbridges/ coal stock yards/ check posts / sidings, the scheduled stoppage point and route deviation by vehicle etc.	
	6	Receiving the GPS data and sending through GPRS to web application in a secured database at a Control System at WCL HQ. Enabling the authorized person/persons of the Area to access the control room web site through login password from anywhere using a standard internet browser to access the data for the respective Areas. The existing GPS based VTS system of WCL will share the GPRS data of GPS sets in hexadecimal data format only.	
	7	Provision for seamlessly integrate with other WCL application S/W via various acceptable Industry Interfacing mechanisms.	
	8	Ensuring that all messages being sent is received at the destination application/systems and monitoring the confirmation of sent and receipt messages.	
	9	Ensuring safe & secure data transfer between interfaces.	
			Key objectives of the existing GPS/GPRS based VTS System are:
	10		To Track the vehicle live & replay.
	11		To enable the Manager Office of the Mines / control room manage the transportation of coal movement within the mines of consignment on a real time basis.
	12		To monitor Route Deviations / Geofence deviations
	13		To monitor excessive delays.
	14		To monitor reduction and/or increase in laden weight of coal during route stopovers, in case load sensors are connected to vehicles in future.
	15		To generate MIS reports on route, distance, number of round trips travelled by vehicles on a daily/weekly/monthly/custom intervals
16		Real-time Tracking: To watch vehicle moving in real-time on the GIS Map, routes being traversed and distance covered. Updating data at intervals of 30 seconds or less.	
17		Geo-Fences: The facility to setup points along the route that the vehicle must travel to within a specific time frame and receive violation alerts when these are breached.	

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	18	Stoppages:- To know exactly where the vehicle stopped and for how long.
	19	GPS Status: To know whether device is receiving data from the GPS satellites or not. System to keep track of this on 24x7 basis and send alerts whenever the device in the vehicle is not relaying data.
	20	SMS Alerts: To receive SMS alerts when trip starts initially from the source point, when trip ends at the destination point, when GPS unit was tampered or cut off from the vehicle battery, Route violation, Geofence violation, stoppage beyond specific period.
	21	Reports: Generation of different MIS reports as follows, based on the available data:-
	22	Route Violation Alert / Report, Geofence violation Alert/report
	23	Abnormal Delay in reaching destination (>one hour delay)
	24	Total Distance Travelled Reports along with Trip Report (daily/Weekly basis)
	25	Number of round trips per vehicle per day /week/month/custom interval reports.
	26	Capable to generate any customized report as per the requirement of WCL.
	27	Maps: Maps having the following features:
	28	Dynamic Geo-fencing (Point, Line and Polygon).
	29	Facility of zoom in, zoom out and panning.
	30	Facility to turn on /off of map layers.
	31	Facility to have confidentiality of data captured.
	32	Facility to create Dynamic Routes on the Map Engine by clicking on the Map.
	33	Facility to calculate the distance on the map between two or more points.
	34	Map Engine having an option for Full Screen viewing
	35	Representation of entire moving GPS fitted vehicle as an icon in the geographical view at the website
	36	Representing different icons for vehicles on trip and not on trip.
	37	Representation of all the relevant maps of the mines with road network
	38	Representation of important landmarks inside the mine operation area
	39	Display of strategic locations like entry and exit gates, store, dump workshop, CHP, Weighbridges, Railway sidings, silo etc. on the map.
Scope of the Work	p	Supply, Installation, Testing and Commissioning of 1846 nos of GPS Units on Tippers / Dumpers engaged in Coal Production /Internal Transportation and in OB Removal / Transportation work, both departmental and contractual and its seamless integration with the existing GPS based VTS system of WCL. The scope of work shall also includes 5 years of GPRS services period & comprehensive AMC of 4 years for the offered devices after the onsite warranty of 12 months from the date of successful commissioning
	q	The scope of work includes supply, installation & commissioning of GPS devices with its seamless integration with the existing VTS system of WCL to achieve the key objective of the VTS system of WCL having features and facilities as already indicated in the document. GPS tracking devices should send location information, speed of the Tippers / Dumpers & also the GPS device related alerts like Device tampering, Stoppage, Idle, non GPS, DC disconnection, Ignition status & other device related alerts to the server at WCL HQ.
	r	The bidder shall develop mobile application for necessary viewing.
	s	In case load sensors are retrofitted onto the existing trucks in future, the GPS tracker shall be integrated with Load sensor to transmit the data to central server.

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	t	You shall arrange for all valid SIMs with GPRS facilities from the mobile service providers so as to minimize the GPRS blind-zones in the operational Areas of WCL. In order to minimize GPRS blind zones in the operational Areas, the successful bidder may be required to take necessary action without any additional cost to WCL. The SIMs are to be purchased in the name of the supplier, and the supplier shall indemnify WCL against loss of SIM & its misuse. The supplier will have to make payments for the periodic bills. WCL shall not pay any extra amount over and above GPRS Service charges quoted by the bidder.
	u	The supplier will have to make payments for the periodic bills. WCL shall not pay any extra amount over and above GPRS Service charges quoted by the bidder. There should be capability/flexibility to change Communication Service Provider at any point of time for better service options
	v	You need to provide the separate dash board for monitoring the functioning of GPS devices supplied and installed for trouble shooting.
	w	The scope of work shall also include any other items ie hardware and software as required if any to complete the installation, commissioning & integration of the GPS devices with the existing VTS system to ensure effective functioning of the same.
	x	You shall conduct physical survey & feasibility study in all the mines/locations, weigh bridges, Sidings to ensure GPRS connectivity before submitting the offer. The site survey, if carried out, shall be at the bidder's cost.
	y	By submission of the bid you have undertaken that before quoting you have studied the existing GPS based VTS system of WCL and ensure feasibility of integration of their devices with the existing system. The supplier shall be responsible for programming, installing the device on new vehicles / equipments, removing from vehicles / equipments to be withdrawn, and maintaining the devices for four years after completion of one year warranty after successful commissioning along with providing GPRS service for 5 years from suitable mobile service providers having good coverage in WCL's mining areas.
	z	In case load sensors are fitted to vehicles in future, the GPS device should also get load sensor data through standard protocol from the digitizer and the data to the central server.
	aa	The GPS receiver must communicate the details of allocated vehicles moving in each mine to the server. The scope of work also includes removing and reinstallation of GPS sets as and when required during the change in vehicle.
	ab	The system hardware & communication software of GPS devices should be from the same OEM / Provider /manufacturer to ensure proper functioning & services of the system.
	ac	The GPS Receivers must function in the coal mines environment considering, temperature, humidity, dust prevailed in the mines & shall conform to IP67 standards of above & documentary evidence in support of IP standard must be submitted.
Mode of Transportation	af	Transportation of Over Burden / Soil from Mine Quarry to the OB Dump by Departmental & Contractual Dumpers within the mines
	ag	Transportation of Coal from Mine Quarry to the Mine Stock Yard by Departmental &

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		Contractual Dumpers within the mines
	ak	Transportation of Coal from Mines loading point to the siding by Contractual Tippers
Services Level Agreement	al	The bidder should enter into an SLA agreement with WCL & must ensure up time of 95 % monthly availability of the GPS sets
	am	Total Uptime shall be calculated on prorata basis of CAMC charges for GPS sets on daily basis & shall be averaged to monthly as :-
	an	$(\text{sum of total nos of GPS sets} - \text{sum of total nos of GPS sets under breakdown}) \times 100 / \text{sum of total nos of GPS sets.}$
	ao	The deduction in payment will be made for the down time in quarterly bills raised by vendor on pro-rata basis on the recurring ordered value for each year. If the uptime in a month goes below 75 %, the user has the right of cancellation of the work order & revocation of bank guarantee.
Technical specifications of GPS device , General Features	ap	GPS (Location, speed, heading, time stamp) data polling and sending frequency capability of less than or equal to 30 sec.
	aq	Location on demand on GPRS/SMS
	ar	Memory to store min 15000 positional log.
	as	The devices should be dash board mounted unit with communication module which shall capture & transmit realtime vehicle location with accuracy & reliability
	at	Parallel GPS Receiver 16-Channel or more
	as	Sensitivity : better than (-)157dBm
	at	Less than 10 mtr Positional Accuracy, (2dRMS)
	au	In- Built Triband GPRS module/Modem
	av	GPRS class 10 or Above
	aw	Should support all – Data, GPRS, TCP/IP, FTP
GPS Device Battery Backup	ax	Suitable battery for 8 hrs or more in active mode
GPS Device Environmental Conditions	ay	Temperature range ; 0° C to 55 °C
	az	Humidity Level: 5% to 95% non-condensing
GPS Antennas	ba	Should have internal GPRS antenna & should not be mounted in open to avoid tampering
	bb	Should have internal GPS antenna & should not be mounted in open to avoid tampering
GPS Ports	bc	2 or more digital Inputs
	bd	2 or more digital outputs
	be	1 or more analog inputs & 1 no. RS232 port or 1 no. USB port.
Other features of GPS	bf	Status LED's to indicate Power, GPS and GPRS status.
	bg	Over the air configuration of parameters.
	bi	Remote administration & firmware update over the air.
	bj	Enclosure protection : IP 67
	bk	The unit should operate from 12 / 24 volts battery of the vehicle along with surge protection.

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Annexure II - CAMC TERMS AND CONDITIONS

1	SCOPE OF WORK: Complete comprehensive AMC of all the 1846 GPS sets, associated hardware & software to be supplied as per supply order specifications for a period of four years after successful completion of one year warranty. CAMC shall include repair, replacement of defective spares / devices, up gradation of software if any during the period of contract.
2	The bidder will provide suitable software for monitoring & recording the uptime for GPS services / sets.
3	The bidder should enter an SLA agreement & must ensure up time of 95 % availability of the GPS
4	In case the required uptime is not maintained the bidder will be imposed penalty which shall be calculated as explained in the NIT document.
5	Total Uptime shall be calculated on prorata basis of CAMC charges for GPS sets on daily basis & shall be averaged to monthly as :-
6	$(\text{sum of total nos of GPS sets} - \text{sum of total nos of GPS sets under breakdown}) \times 100 / \text{sum of total nos of GPS sets.}$
7	The deduction in payment will be made for the down time in quarterly bills raised by vendor on pro-rata basis on the recurring ordered value for each year.If the uptime in a month goes below 75 %, the user has the right of cancellation of the work order & revocation of bank guarantee.
8	The CAMC also includes operation of the system with onsite support for deployment of minimum one service engineer in each Area
9	All types of breakdown calls are to be attended within four hours and rectified within another 06 hours on reporting the complaint by telephone / fax & you will furnish the 24x7 help desk details.
10	Period of services will be for a period of five years. This includes 5 years of GPS/GPRS services period as mentioned in scope of supply & comprehensive AMC for 4(Four) years for entire system & solution after successful completion of one year of warranty
11	For CAMC Charges and Recurring Charges: Shall be payable on quarterly basis at the end of each quarter after commissioning and integration of the entire system. CAMC Charges shall be payable within 21 days of receipt of bills and satisfactory performance report from GM(E&T)WCL HQ .Recurring charges shall be payable at the end of each quarter after successful installation, commissioning and integration which will be certified by GM(E&T),WCL HQ .However usage charges if any prior to commissioning of total system shall also be paid alongwith the First Bill .
12	Paying Authority : GM(F) WCL HQ
13	Maintenance holder shall maintain a joint record for fault report from time to time against the emergency / service visits of the subject equipment, which shall be duly certified by the concerned engineer of the area indicating the nature of the fault, date of report and date of rectification. One copy of the joint visit must be submitted to the concerned engineer
14	Complete reports shall be submitted along with the bills for the period of claim on satisfactory completion of service period.
15	No hike in the service rates during the tenure of the contract period is entertained.
16	If any parts / spares / components is replaced, the old part so removed is the property of the maintenance contractor.
17	The maintenance contractor is responsible for the repairing of defects caused on account of the normal wear and tear of equipments.
18	Penalty clause: As mentioned in the scope of supply in scope of work.
19	Service exclusions: Service do not cover the repair for damages, malfunctions or service failures caused by force majeure condition.

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ANNEXURE "III"

Format of Bank Guarantee for Security Deposit:

(RS.250 non-judicial stamp paper)

1. In consideration of M/s. Western Coalfields Limited, Nagpur (hereinafter called "The Company") having agreed to exempt _____ (hereinafter called "The said Contractor(s)") from the demand, under the terms and conditions of the agreement dated _____ made between _____ and _____ for _____ (hereinafter called "the said Agreement"), of security deposit for the due fulfilment by the said contractor(s) of the terms and conditions contained in said Agreement, on production of bank guarantee for Rs. _____ (Rupees _____ only). We _____ (indicate the name of bank) (hereinafter referred to as "the Bank") at the request of _____ (Contractor(s) do hereby undertake to pay to the Company an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Company by reasons of any breach by the said Contractor(s) of any terms or conditions contained in the said Agreement.

2. We, _____ do hereby undertake (indicate the name of the Bank)

to pay the amounts due and payable under this guarantee without any demur, merely on demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said agreement or by reason of the contractor(s)'s failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ only.

3. We undertake to pay to the Company any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal :

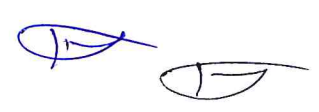
The payment so made by under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

4. We, _____ further agree that the (indicate the name of the Bank)

guarantee herein contained shall remain in full force and affect during the period that would be taken for performance of the said Agreement and that it shall continue to be enforceable till all the dues of the company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the company certified that the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee. The guarantee shall remain in force till the _____ the day of _____ 20 ____ and unless a demand or claim under the guarantee is made on us in writing within 3 months from the said date, shall be discharged from all liabilities under this guarantee thereafter.

5. We, _____ further agree with the (indicate the name of the Bank)





Company that the company shall have fullest liberty without our consent and without affecting in any manner our obligations, hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the company against the said contractor(s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reasons of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act or commission on part of the company or any indulgence by the company to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in constitution of the bank or the contractor(s)/supplier(s).

7. We _____ lastly undertake not to revoke this (indicate the name of the Bank) guarantee during its currency except with the previous consent of the company in writing.

8. The bank Guarantee is operational for all purposes at Nagpur Branch ,Maharashtra (Branch Code-)

Dated the _____ day of _____ 20 _____

For _____

(indicate the name of the Bank)

