

TD - 199
REV NO. 0**BHARAT HEAVY ELECTRICALS LIMITED**
Ramachandrapuram: Hyderabad – 502 032
Project Engineering and Systems Division**Name of Tender:** Design, Manufacture, Assembly, Testing at Bidder's Works, Packing, and Delivery to site, Erection Supervision and Commissioning of Closed Circuit Television (CCTV) system for NTPC 1x50 MW SPV, Mandsaur (M.P.) project.**BHEL Tender Ref:** T7H1P01610 / NIT_29516 Dated 23.09.2016**Pre-Bid Meeting Held On 30.09.2016 at 10:00 Hrs. in PE&SD, BHEL, Hyderabad****Corrigendum-01 DTD. 04.10.2016**

With respect to the above mentioned Enq / NIT No., the following corrigendum is released. The Corrigendum contains following amendment in the specifications and shall be a part of the above enquiry.

This corrigendum is to be submitted, duly signed and stamped along with the technical bid (Part-I).

SI. No.	Ref. Doc./Clause No.	Bidder's Queries	BHEL Response
A. Commercial Queries			
1.	NIT Covering Letter/ PQC Criteria/ Clause No. 1.0	NIT - PQ criteria - Point 1 - Financial criteria - as on date the financial statement is not being audited and it is going on, so can we submit the last year financial statement audited.	Yes. Refer Point No. C of Clause No.1.0 of PQC Criteria.
2.	Volume-IB_SCC - page no. 6 - point 11.1 & 12.1	Please clarify that we need to submit two separate BG of 10%.	Yes. As per clause no. 11.0 of SCC, initially bidder has to submit CPBG and immediately after supply completion PBG to be submitted as per clause no. 12.0 of SCC. Bidder may convert initially submitted CPBG into PBG.
3.	Volume-IB_SCC - Payment terms - page - 7 - Point - 13.1.1	Supply - we request you to please do not link the last 10% supply payment with the E&C certificate from site, as due to site not readiness, the erection part might be delayed or put some cap on this (any way we are submitting the BG of 10% against this and this payment should be released against the BG)	Payment Terms shall be as per NIT only.

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4.	Volume-IB_SCC - Payment terms - page - 7 - Point - 16	Please relax the warranty terms to 12 months from the date of commissioning or 15 months from the date of supply as all OEM provided standard warranty of 1 months from the date of invoice.	Guarantee terms shall be as per NIT only.
5.	General	Vendor should not be penalized In case of any delay in approval from NTPC or BHEL.	As per Terms & Conditions of NIT.
6.	General	Please confirm that inspection charges (TPIA) will be borne by BHEL.	Yes. It is in BHEL Scope.
7.	General	Pls confirm - We need to quote the basic price in the BOQ and taxes should be mentioned separate extra in the e-portal.	Yes.
B. Technical Queries			
1.	NIT PQC- Point 2.1	We request you to please specify the minimum order value of at least 50% of the estimated cost for executed IP based CCTV package in last 5 yrs.	Not required.
2.	NIT PQC- Point 2.0	The bidder should be authorized system integrator or dealer?	Clause clearly states that bidder should be OEM or an authorized dealer. In case bidder is having authorization letter from OEM stating that the bidder is authorized to quote for supply, erection supervision, commissioning and providing after sales service support, then same is acceptable.



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3.	NIT PQC- Point 2.1(iii)	Please accept documents like PO, Installation report against the technical PQ, as drawings/design, dispatch documents may not be available and applicable for all clients. Like IOCL, BPCL do not provide any dispatch document as they depend on the third party inspection if applicable.	Bidder to follow PQC strictly. Deviation in this regard is not acceptable.
4.	Clause 5.7 of BHEL specification PY55219	4 mtr Pole should be of MS/ GI. Pls confirm?	Pole shall be of 4mtr height, made of GI and shall be suitable of withstanding load of 150kg without any deformation and damage.
5.	Clause 6(e) of BHEL specification PY55219	Server Make given. Server min. Specification not given. Pls provide with Min. server specs. Do they need Redundant Servers?	Server redundancy is not required. Specification of server has to be decided by bidder meeting all technical and functional requirements of BHEL specification PY55219. In no case performance of CCTV system shall be compromised while selecting server specifications.
6.	Clause 8(a) Sl. no. 7, 8 & 9 of BHEL specification PY55219	NVMS Server, VA Server and Analytic Server. All three Servers are different. Can we offer solution in option (VMS +Analytics + storage Recording in Single Server) OR (VMS + Recording in single server & Analytics in Different Server) if possible?	Clause 5 of BHEL specification states the technical requirement of video management, video analytics and recording for a period of fifteen days for all cameras. Selection of number of servers for above features in any combination meeting all contractual requirements is bidder's responsibility. However, bidder has to ensure that the system is complete in all aspects for reliable performance as asked in NIT. Moreover, kindly note that make of the components as specified in clause 6 of BHEL



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			specification shall be strictly followed. For Sl.No.7, 8 & 9 of clause 8, bidder has to quote according to their offered CCTV solution i.e. if two or more features are in single server, same has to be specified.
7.	Clause 8(a) Sl. no. 7 of BHEL specification PY55219	NVMS Server + Software License. Do they need redundancy?	No.
8.	Clause 8(a) Sl. no. 25 of BHEL specification PY55219	Multimode 8C fiber 1.6KM. Where is requirement for Multimode Fiber?	As per clause 5.9 (Page-11: Multi-Mode FO Cables), multimode cables are not to be used in CCTV system. Same has to be supplied for purchaser's use only.
9.	Clause 8(a) Sl. no. 4 of BHEL specification PY55219	Total 8 port Network Switch quantity is 5 nos. As per Drawing pg 25 there are only 4 nos. of 8 port switch shown. Where remaining switch is to be deployed?	Bidder shall quote as per BOM. Deployment of fifth 8port network switch, if required, shall be decided during detailed engineering based on site condition and customer requirement
10.	Clause 9 of BHEL specification PY55219	Laying of FO and HDPE is not in our scope – Please clarify this – as point if only need to supply these item – if laying is not in our scope, so termination and its accessories will also be not in our scope – please clarify this in detail.	Laying of FO and HDPE is not in bidder's scope. However, termination of cables is in bidder's scope to ensure correctness of system as part of commissioning.



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11.	Clause 5.2 of BHEL specification PY55219	Tech Specs of fixed camera – cameras will be night vision which works on certain lux level and required some amount light to give picture at night – but in case of complete darkness, we suggest to use external IR illuminator.	As per clause 5.2, Night vision feature under complete darkness for all cameras (both fixed and PTZ) has to be provided. Same can be achieved by either external or internal IR illuminator. Same has to be specified by bidder in their offer.
12.	Clause 8(a) of BHEL specification PY55219	BOQ item 3 and 4 – Please confirm that 8 port switch which might be installed in field will be industrial grade and 24 port switch will be commercial grade as the same will be installed in control room.	Both Network Switches (24Port & 8Port) shall be of Industrial Grade.
13.	Clause 8(a) of BHEL specification PY55219	BOQ item 18 and 19 – Please revise the qty to in the multiple of 305 meters.	Supply as per BOM. No change required.
14.	General	Please confirm scope of the following as the same is not included in the BOQ -Supply and laying of MS and GI conduit – if we require this. -Any excavation and digging requirement -Supply and laying of cable tray – if we require	Supply of any equipment deemed necessary by bidder for successful operation of CCTV system is in bidder's scope. All stated activities other than supply are not in bidder's scope. Any specific requirement in this regard from bidder shall be informed in their offer. Same shall be ensured by purchaser.
15.	Clause 8(c) of BHEL specification PY55219	Recommended spares for 2 years or 5 years – Please clarify.	5 years.



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16.	Clause 9 of BHEL specification PY55219	As per scope matrix, installation of all items includes cable laying, field work, excavation, pole installation and foundation etc. Same shall be in BHEL scope under bidder's supervision. Please confirm.	Yes.
17.	Clause 8(a) of BHEL specification PY55219	Do we need to consider any mandatory spares along with main supply BOQ.	No.
18.	Clause 10 of BHEL specification PY55219	Type test certificate may not be applicable along with the bid submission.	Bidder to either submit required type test certificate at the time of offer or confirm to submit required type test certificates after placement of order before dispatch.
19.	Clause 5.1 of BHEL specification PY55219	Please confirm the requirement of supply of Minim UPS additionally if required – how many qty's to be considered and for how much back up	As stated in clause 5.1, UPS supply of 2KVA has been allotted for CCTV equipment in CMCS building. In case bidder needs more UPS supply in CMCS building, then bidder must supply single mini UPS of balance rating (i.e. excluding 2KVA allotted by purchaser) with 2hrs back up.
20.	General	Cable Laying Supervision: How to consider the timelines of supervision?	Supervision requirement shall be intimated to bidder by purchaser based on site readiness. Solar projects are fast track projects, so timelines to be chosen accordingly.

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21.	Clause 5.1 pg.5 of BHEL specification PY55219	What shall be the portable media device?	Any portable media device (pen drive/hard disk/etc.) capable of taking back-up of system configuration and database and restoring the same. Size to be chosen accordingly.
22.	General	You have asked for industrial grade products only. Shall LCD also be of industrial grade?	As specified in clause 5.1 page-5, all components of the CCTV system shall be of industrial grade.
23.	General	Can we give camera enclosure for any make with the given specification for fixed cameras?	Yes.
24.	Clause 5.2 of BHEL specification PY55219	Can we give bullet cameras with varifocal lens or we need to provide only box camera with lens and external housing?	Fixed type cameras can be of Box type with enclosure or Bullet type. However, bidder to ensure that IP class & heater and blower requirements as specified in clause 5.3 is being met.
25.	Clause 5.9 of BHEL specification PY55219	No vendor has armoured FRLS cable. Can we consider normal FRLS cable and get it armoured separately. We shall give test reports of the same.	FRLS armoured cables are available in market. Same to be supplied.
26.	Clause 8(a) sl.no. 20 of BHEL specification PY55219	8 core single mode cables are non-standard. Can we give 6 or 12 core cable instead? Can we give D-Link fiber cable?	Single mode FO cable shall be either 8C or 12C. Make of FO cable shall be strictly as per clause 6 of BHEL specification PY55219.
27.	Clause 6(d) of BHEL specification PY55219	For enclosure, can we use VAL rack or APW?	Make of enclosure for panels shall be strictly as per clause 6 of BHEL specification PY55219.



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28.	General	No spec mentioned about switches. Commercial or Industrial grade? Managed or Unmanaged?	As specified in clause 5.1 page-5, all components of the CCTV system shall be of industrial grade. Type of network switch shall be selected in such a way that all functional requirement of CCTV system as specified in NIT is meeting.
29.	General	Shall media converters be of industrial grade?	As specified in clause 5.1 page-5, all components of the CCTV system shall be of industrial grade.
30.	Clause 8(c) (i) of BHEL specification PY55219	Wi Fi trans-receivers have been asked for but no make and specs have been mentioned. How to quote?	Point to Point Wi Fi trans-receivers (pair) for transferring data at 300Mbps between 500mtr shall be considered for quoting.
31.	Clause 8(c) of BHEL specification PY55219	Shall optional prices be considered during evaluation?	No.
32.	Clause 9 of BHEL specification PY55219	Supervision and acceptance of loop function. Please explain its meaning.	Acceptance of correctness in operation of CCTV system.
33.	General	Under supervision, how many people are required and what should be the basic criteria/qualification/experience of the supervisor?	Bidder to decide the number and qualification of supervisor based on quantum of work asked in NIT. Same to be finalized during detailed engineering.
34.	Clause 10(b) of BHEL specification PY55219	In category section, it is written A or R. What does it indicate?	A stands for Approval R stands for Review



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35.	Clause 5.2 of BHEL specification PY55219	PTZ Camera: Axis doesn't have a 2MP PTZ with 20x optical Zoom. We either have 12X Optical zoom PTZ cameras or 30X PTZ Cameras. What to consider?	Specification states minimum requirement. Bidder to supply features as mentioned or better. Cameras with lesser feature shall not be accepted.
36.	Clause 5.2 of BHEL specification PY55219	Wide Dynamic Range: The tender is silent about the WDR levels of the camera which play an important role in image usability in uneven lighting conditions. Request you to please specify minimum WDR levels in each camera.	For both PTZ and Fixed cameras, clause 5.2 states that bidder to offer camera with 'Automatic Picture Enhancement to give a balanced picture where there is too much/too little light'. Bidder to offer camera with suitable WDR level meeting stated requirement.
37.	Clause 5.2 of BHEL specification PY55219	Fixed Camera: Our fixed cameras that match your specifications, have a minimum lux level of 0.25 lux as against 0.21 lux mention in the specifications. We request you to amend the specifications or allow us to quote with this deviation.	Specification states minimum requirement. Bidder to supply features as mentioned or better. Cameras with lesser feature shall not be accepted.
38.	Clause 5.2 of BHEL specification PY55219	Audio: Since these cameras are outdoor, there is no use of audio functionality on the PTZ and fixed cameras. We request you to please remove this specification or allow us to quote with the deviation on this.	No deviation is accepted. Bidder shall offer as per NIT.
39.	Clause 5.2 of BHEL specification PY55219	IR Illumination: The IR illuminator mentioned through the term "All the cameras shall be color, suitable for day and night surveillance (under complete darkness conditions)" by clause 5.2, doesn't mention the angle and distance of IR illuminator required for both type of cameras.	Single IR illuminator per camera (for both Fixed and PTZ type) shall be supplied for night surveillance under complete darkness. Illuminator may be internal or external. Range of illuminator shall be minimum 30mtr.