



:020-26133148

: 020-26052869

REGSDS / BY POST

Superintending Technical Examiner (SC)

PCDA (SC) Complex, No.1, Finance Road

Pune – 411 001

1146/169/ **18**/Q/ADGTE

Oct 2018

Garrison Engineer
Babina Cantt – 284 401

SITE VISIT : CEBZ/BAB-16 OF 2015-16

1. Refer inspection conducted by STE team on 08-09 Oct 2018.
2. The copy of factual statement of the work is held on your record. The obsns on account of above mentioned visit are enclosed as Appendix 'A'. The obsns apply to the entire work except where otherwise specially mentioned. No action for price adjustment/deviation has been initiated till date of insp.
3. Please take suitable action to get the defective work rectified as mentioned on factual notes/obsns and ensure compliance. If, however, the defects are not rectifiable and the defective work as executed is technically acceptable to you, please forward the details of overpayments invoiced for such defective work accepted.
4. Please ref to E-in-C's Branch letter No 41000/E4 dated 14 Oct 1981 and take necessary further action to ensure that the defects are not allowed in the current works in your area and remedial actions are taken. This should be taken in other cases also including financial recovery.
5. Please furnish your specific replies to obsns within 06 weeks failing which the matter may have to be reported to Higher Authorities. In this connection please ref to Sec 23 of Manual of Contracts, 2007.

(Satish Chander, IDSE)
STE SC, Pune

Encls : As above

Copy to :-

HQ ADGTE, New Delhi

.. For info & necessary action alongwith obsns.

HQ CE Bhopal Zone
Bhopal
PIN – 900 236
C/o 56 APO

1. For info & necessary action. Obsn may please be replied incl conditions.

2. Please refer to Sec 23 of Manual of Contracts, 2007 and issue suitable instruction to all other GEs under you with a view to prevent acceptance of similar defective work in those divisions where such defects are suspected to be occurring. Financial recoveries as applicable may be effected in similar works also.

CWE Bhopal
PIN – 900 236
C/o 56 APO

3. Systematic corrective measures be instituted in all units of your AOR (Area of Responsibility).

Station HQ
Babina – 284 401

**SUPERINTENDING TECHNICAL EXAMINER
(SOUTHERN COMMAND) PUNE
NO. 01 FINANCE ROAD, PCDA (SC) COMPLEX, PUNE - 411 001**

TECHNICAL EXAMINATION OF CONTRACTS / WORKS / FINAL BILLS

CA No	CEBZ/BAB-16 OF 2015-16	Amount (in lakhs)	2092.51 lakhs	Location	Babina		
Name of Work	Provn of Training Infrastructure at BFFR Babina						
(a)	Contractor	M/s Roshan Lal Talwar					
(b)	Date of Commencement	26 Feb 2016					
(c)	Completion as per CA	16 Mar 2018					
(d)	Extended date of completion	28 May 2018					
(e)	Actual date of Completion	28 May 2018					
(f)	DV No & Date of final bill if paid	-					
(g)	Whether ADGTE visited project (if yes, date)	-					
(h)	Name of STE / TE	Name of MES Offrs Accompanying					
	Shri Satish Chander, IDSE, STE SC Pune Shri D Suresh Reddy, IDSE, SE(NF), TE Lt Col Bhaskar Rautela, TE Lt Col Digvijay Singh, TE	Maj Sachin Sinha, GE Shri D Prabhu Das, AGE B/R-II Shri Darshan Kumar, AGE E/M					
(k)	Inspection Summary :						
	No Inspection	Ist Check		2nd Check		3rd Check	
(i)	Date of Check	25 Oct 2017		08-09 Oct 2018		-	
(ii)	Progress %	Actual	Target	Actual	Target	Actual	Target
		62%	-	100%	-	-	-
(iii)	Obsn Nos Raised	Ist	24	2nd	14	3rd	-
(iv)	Total Obsn Raised						
(v)		<u>Minor</u>	<u>Maj</u>	<u>Adv</u>	<u>Minor</u>	<u>Maj</u>	<u>Adv</u>
		-	46	-	-	-	-
(vi)	Obsn Split	B/R	E/M	B/R	E/M	B/R	E/M
(vii)		40	06	11	06	-	-
(viii)	Total Settled						
(ix)	Outstanding Obsn						
(x)	Outstanding Obsn (Check wise)						
(xi)		IRNR	-	IRNR	-	IRNR	
(xii)	Net Outstanding Obsns	-					
(xiii)	Date of Expiry of DLP (where wk 100% completed)	27 MAY 2019					

CA No : CEBZ/BAB-16 OF 2015-16
 Name of Work : Provn of Training Infrastructure at BFFR Babina
 Amount in lakhs : ₹. 2092.51 Lakhs

PART – A : REVIEW ON 1ST CHECK

General (Brief Scope of Work). CA No CEBZ/BAB-16 OF 2015-16 :“Provn of Training Infrastructure at BFFR at Babina, Pune for ₹. 2092.51. 46 Nos of obsns raised during 1st check on 25 Oct 2017. During 08-09 Oct 2018, previous check verified on ground and remarks appended against each obsns :-

No	Obsns	Present Status
1	2	3
1	<u>Obsn No 01 : BLT.</u> As per item 13(c) on page No 7 of BPs and item (vi) (c) of AEs two number BLT have been considered. In CA only one BLT has been considered vide item No. 2.25 on page 261(R)(R). You are requested to confirm through users that only one BLT is required and get A/A amended accordingly. Forward your reply through CE.	Initial reply not recd.
2	<u>Obsn No 02 : Gradient.</u> As per item 13(d) on page of BPs and item (vi) (d) of AEs two number gradient of 5.46 m height has been considered. In CA only one gradient of 1.5 m height has been considered vide item 2.22 on page 25(R) (R)(refer drawing). At site only one gradient of 1.5 m height has been constructed as per CA. Another gradient of 5.4 height has been constructed through DO having financial effect of ₹. 80 lacs (approx.). This is loss to state. The cost of 1.5 m height gradient Rs 2018000/- (As per CA) is considered infructuous expenditure. There would have been saving in 5.4 m high gradient also if it was considered in CA. You are requested to get confirmation from users that they require of 5.4 m height and get A/A amended accordingly. Accept ₹. 21,08,000/- as infructuous expenditure as item had been constructed without being approved by CFA in A/A. Forward your reply through CE.	Initial reply not recd.
3	<u>Obsn No 03 : Shed for Signal Det.</u> (a) Fly ash bricks of size 230 mm x 110 mm x 75 mm instead of 230 mm x 110 mm found used for masonry. Joints found wider varying from 10 to 20 mm & not filled properly at places. Make & fly ash brick found Laxmi, SAI. You are requested to confirm through documentary evidence that bricks have been manufactured using FAL-G technology. Identify similar defect at other places and rectify it intimating cost.	03(a) Settled.

1	2	3
<p>03 (contd)</p>	<p><u>Obsn No 03 : Shed for Signal Det.</u></p> <p>(b) Ceiling height above PCC sub base found 3.40 mm. Flooring is yet to be carried out. You are requested to confirm height of building above finished floor level as per drawings.</p> <p>(c) Plaster 16 to 20 mm thick found on RCC columns, instead of 05 mm as per PS Clause No. 6.12(b) on page 183 of CA. Excess plaster indicates that columns are not in plumb. Identify similar defect at other places and rectify it intimating cost.</p> <p>(d) Grooves 8 to 10 mm deep made internally on internal surfaces at the junctions of wall & RCC elements. Grooves are not as per CA specifications. Identify similar defect at other places and rectify it intimating cost.</p>	<p>03(b) Settled.</p> <p>03(c) Please confirm that all columns are in plumb.</p> <p>03(d) Initial reply not recd.</p>
<p>4</p>	<p>4. <u>Obsn No 04 : Guard Shed.</u></p> <p>(a) <u>Steel windows.</u> MS windows found procured from GS Udyog Kanpur. The sections have flages 19.50, 18.50 m, 24 mm, Thickness - 3.2 mm. ISI mark not found on 'Z' sections. Gaps found between shutter & frame and not closing properly. Sections of steel windows are not confirming to IS 1081. As per PS Clause No. 11.10(g) on page 198 of CA sections should be ISI marked. You are requested to replace all windows (in all buildings) with sections as per IS 1081 with ISI mark on sections or accept recovery @ 20% cost of material if it is technically acceptable.</p> <p>(b) <u>Window Cill.</u> 24 to 25 mm thick stone found provided for window cill with 30 to 32 mm outer projection instead of 50 mm as per PS Clause NO. 6.10(a) on page 183 of CA. Edges are not rounded. Gap found between frame & cill and need to be filled with suitable material. Replace all cills in all buildings as per CA specifications and rectify other defects. Intimate cost of replacement and rectification. Forward your reply through CE.</p>	<p>04(a) Please fwd confirmation. Also as per CA page No 198 sections to be ISI mark. Please fwd recovery as asked.</p> <p>04(b) Initial reply not recd.</p>
<p>5</p>	<p><u>Obsn No 05 : Rest Bay.</u></p> <p>(a) <u>Pressed steel chowkhat.</u> 1.25 mm thick MS pressed steel chowkhat double rebated found provided. Width of chowkhat found 129 mm with 35 mm rebates on both sides. 3 Nos MS hinges, ISI marked found d provided. Frame found hollow at places due to improper filling of PCC. Rectify defect and intimate cost.</p> <p>(b) MS Flat 23 mm X 3 mm instead of 25 mm x 3 mm found provided in the brick masonry wall at the junction of columns. Replace flats as per CA specifications and confirm that same has been provided in all buildings.</p>	<p>05(a) Rectification cost of `15142.50 is accepted . (Please confirm at other places no such defect exist.)</p> <p>05(b) Please fwd rectification cost.</p>

1	2	3
5	(c) Plinth height found 44 Cm above GL & flooring is yet to be carried out. Confirm plinth height as per drawings.	05(c). Settled.
6	<u>Obsn No 06 : Aero model shed.</u> Height of ceiling above PCC sub base found 3.27 m & 3.34 m, flooring is yet to be carried out. Confirm height of building above FFL as per CA.	06. Settled.
7	<u>Obsn No 07 : OIC Firing Shed.</u> (a) RR Masonry found provided below plinth beam. Joints found wider and varying from 40 to 50 mm instead of 15 mm and not filled properly at places. PCC found provided in places bond stones. Number of bond stone found 6 to 8 in 30 m X 1.5 m. As per SSR there should be 2 bond stone in one sqm. Identify similar defect at other places and rectify it intimating cost. (b) Honey combing observed on RCC elements i.e. beams / columns and ceiling of slab. Identify similar defect at other places and rectify it intimating cost.	07(a). Settled. 07(b). Settled.
8	<u>Obsn No 08 : View point.</u> (a) It is a two storied RCC structure. Ceiling height found 2.48 m above slab in 1 st Floor. Confirm height through CA. (b) Honey combing observed in RCC beams / columns. Identify similar defect at other places and rectify it intimating cost.	08(a). Settled. 08(b). Settled.
9	<u>Obsn No 09 : Aero Model Strip.</u> A strip measuring 150 m long & 8 m wide with 40 mm PCC 1 : 2 : 4 over 100 mm thick PCC sub base found provided. In the CA, the size given is 100 x 12 m. 38 x 3 m glass dividing strips used in PCC flooring. Confirm through users that size of strip provided at site is acceptable to them.	09. Settled.
10	<u>Obsn No 10 : CSO Pit.</u> (a) A semi underground structure with RCC wall 310 mm thick found provided. Depth of pit found 1100 below GL. Confirm dimensions as per CA. (b) APP membrane IWL (Hyperplast make) found provided all around wall surfaces externally. No membrane provided at the bottom. This provision is found redundant and not required, being a thick RCC wall. As membrane is not provided at bottom it will defeat purpose. Intimate cost of membrane provided which is to be treated as avoidable expenditure. Forward your reply through CE.	10(a) (b) Initial reply not recd.

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11	<p><u>Obsn No 11 : OP Tower.</u></p> <p>(a) Column reinforcement bars found twisted and not properly cantered over the pedestal. Cover to reinforcement found varying and at places bars are at the surface of RCC.</p> <p>(b) Leg of stirrups found 70 mm for 8 mm dia and legs are bent at 90⁰ at places instead of 135⁰. Identify similar defects at other places and rectify them intimating cost through CE.</p>	<p>11 (a) (b) Initial reply not recd.</p>
12	<p><u>Obsn No 12 : Scaffolding.</u></p> <p>(a) Wooden props found used for scaffolding. As per PS Clause No. 6.11(b) only steel props are to be used. Replace wooden props with steel props and intimate cost. Accept penal recovery of ` 5,000/- for lapses.</p> <p>(b) Steel shuttering found rusted, bent & are being used. Replace shuttering and intimate cost. Accept penal recovery of ` 5,000/- for such lapse.</p>	<p>12(a). Settled.</p> <p>12(b). Recovery cost of ` 5,000/- accepted. Please fwd replacement cost of steel shuttering.</p>
13	<p><u>Obsn No 13 : Veh Driving Track.</u></p> <p>(a) RR masonry wall found constructed. PCC found used in place of bound stones. Total such stones used found 08 Nos in 30 M length x 0.8 M wall. As per SSR two bond stones are to be provided for 01 Sqm of masonry. Provide bond stone as per SSR and intimate cost.</p> <p>(b) Joints in RR masonry found wider & varying from 50 to 60 mm instead of 10 mm and not filled properly at places. Identify similar defects at other places and rectify them intimating cost.</p>	<p>13(a). Settled.</p> <p>13(b). Not agreed to. Please rectify joints & fwd cost.</p>
14	<p><u>Obsn No 14 : Anti Tank Ditch.</u></p> <p>(a) A 2.9 M deep RCC structure with RCC tapered wall having 310 mm thick on top found provided. Wall is not in proper alignment & bulged at places. Rectify defect and intimate cost through CE.</p> <p>(b) Honey combing observed on concrete surfaces. Identify similar defects at other places and rectify them intimating cost.</p> <p>(c) 11 to 12 weep holes found in 60 Sqm area of wall. Structure is underground number of weep holes are insufficient. Provide sufficient weep holes and confirm they are sufficient w.r.t design criterion through CE.</p>	<p>14(a) Initial reply not recd.</p> <p>14(b) Settled.</p> <p>14(c) Initial reply not recd.</p>

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14	<p>(d) Comprehensive strength randomly checked & found 17,15,20.5,15.5,18.5,20 N/mm². Compressive strength is less than acceptance criterion. You are requested to get core cut and tested at SEMT Wing of CME, Govt. Engineering College or Govt. approved lab and forward report through CE.</p> <p>(e) Ramp with stone sett flooring found provided for tanks. Joints found wider, varying from 25 to 36 mm instead of 20 mm as specified in schedule/ PS Clause 13.13. Mortar is coming out from joints with slight chiselling. Metallic hardener found inadequate. You are requested to identify similar defect at all other places where stone set road has been constructed, rectify defect and intimate cost through CE.</p>	14 (d) (e) Initial reply not recd.
15	<p><u>Obsn No 15 : Gradient (1.5 m)</u></p> <p>(a) Honey combing observed on concrete surfaces. Rectify defect and intimate cost.</p> <p>(b) Comprehensive strength found 14.5, 20.5, 15, 16, 16.5,17 N/mm². Compressive strength is less than acceptance criterion. You are requested to get core cut and tested at SEMT Wing of CME, Govt. Engineering College or Govt. approved lab and forward report through CE.</p>	<p>15(a). Settled.</p> <p>15(b) Initial reply not recd.</p>
16	<p><u>Obsn No 16 : Rush Crossing.</u></p> <p>(a) Honey combing observed on concrete surfaces. Cover not maintained properly. Rectify defect and intimate cost.</p> <p>(b) Compressive strength using NDT and are 16.5, 15,15.5 for M-25 concrete. Compressive strength is less than acceptance criterion. You are requested to get core cut and tested at SEMT Wing of CME, Govt. Engineering College or Govt. approved lab through CE.</p>	<p>16(a). Rectification cost of ` . 4707.75 is accepted. Please accept recovery of ` . 5000/- for not maintaining proper cover.</p> <p>16(b) Initial reply not recd.</p>
17	<p><u>Obsn No 17 : Rainee Canal.</u> 27 m wide 200 m long channel found constructed. PCC lining provided along the slope and at bottom of channel. Stone set coating provided at ends & middle. Joints found 25 to 30 mm at places. Rectify defect and intimate cost. Confirm water tightness after completion.</p>	Reply awaited.
18	<p><u>Obsn No 18 : Zig Zag Lane.</u> Stone set pavement found constructed in straight line in lieu of Zig Zag direction. Joints found wider varying from 20 to 35 mm instead of 20 mm and excess screed is spread over the stone surface beyond joints. Identify similar defects at other places and rectify same</p>	Reply awaited.

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19	<p><u>Obsn No 19 :Tatra loading platform.</u></p> <p>(a) Honey combing observed on concrete surface. Rectify defect and intimate cost.</p> <p>(b) NDT valves found 18.5, 19, 17.5 N/MM². Compressive strength is less than acceptance criterion as per IS 456. You are requested to get core cut and tested at SEMT Wing of CME, Govt. Engineering College or Govt approved lab and fwd report through CE.</p>	<p>19(a). Settled.</p> <p>19(b). Initial reply not recd.</p>
20	<p><u>Obsn No 20 : RCC Over head Tank.</u></p> <p>(a) OHTs are located with MCTs. In Pocket No 7, Fire Point -5, the roof slab of MCT is found higher than OHT. Water can't reach PVC water tank placed on roof slab of MCT. You are requested to take corrective action and intimate through CE.</p> <p>(b) PCC not found carried out at bottom of OHT. Earth filling is also to be done with proper compaction, at base of OHT. You are requested to carry out rectification and intimate with cost.</p>	<p>20(a) Initial reply not recd.</p> <p>20(b). Please confirm flooring has been carried out.</p>
21	<p><u>Obsn No 21 : ESH (Explosive store House).</u></p> <p>(a) ESH having size 18 x 12 m found constructed with RCC framed structure. It is an open shed type building with 345 mm thick brick wall to a heath of 0.9 m above FFL.</p> <p style="margin-left: 40px;">Plinth height : 1.20 m Ceiling height : 4.20 m above FFL Flooring : RCC floor using nominal reinforcement instead of normal floor.</p> <p>(b) ESHs (Total 3 No) are located at different places and there is no fencing/ security wall around it.</p> <p>(c) Flame proof fittings are catered in contract. Shed is open from all sides. Purpose of providing flame proof fitting is not understood. There are chances of theft being open shed.</p> <p>(d) No arrangement exist for firefighting.</p> <p>These buildings are proposed to be used as a normal store/shelter during exercise and not meant to store explosive. Normal storage building/open shed with lesser span could have been sufficient considering the proposed usage. The cost incurred to their buildings with high specifications is avoidable expenditure. You are requested to offer your comment through CE.</p>	<p>21(a) (b) (c) (d). Initial reply not recd.</p>

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22	<p>Obsn No 22 : Site Lab. Site lab located in temporary shed following equipment found installed in the lab :-</p> <ul style="list-style-type: none"> (a) Electrically operated CTM (b) Set of sieves (c) Oven (d) Slump cone apparatus (e) Cube moulds <p>It is found that site lab is not fully equipped to carry out all tests as per Special Condition 31(aa) on page 157 of CA. Site lab is important for quality control. No importance has been given on this aspect. You are requested to establish fully equipped site lab and confirm through CE. Recover the amount for not having all equipment in site lab. Accept penal recovery of ` 10,000/- for this lapse.</p>	Initial reply not recd.																												
23	<p>Obsn No 23 : Performance Evaluation and Appx 'F'. Performance evaluation report as per Special Condition 40 on Page 160 of CA along with Appx "F" not produced. You are requested to forward the same through CE.</p>	Initial reply not recd.																												
24	<p>Obsn No 24 : Site Engineers. Following site engineers found at site :-</p> <table border="1" data-bbox="236 1070 1145 1339"> <thead> <tr> <th></th> <th><u>Name</u></th> <th><u>Experience</u></th> <th><u>Qualification</u></th> </tr> </thead> <tbody> <tr> <td>(a)</td> <td>Sh Anil Talwar</td> <td>38</td> <td>B Tech (Civil)</td> </tr> <tr> <td>(b)</td> <td>Sh Sanjeev Talwar</td> <td>35</td> <td>-do-</td> </tr> <tr> <td>(c)</td> <td>Sh Rajeev Talwar</td> <td>32</td> <td>-do-</td> </tr> <tr> <td>(d)</td> <td>Sh Arun Kumar</td> <td>03</td> <td>-do-</td> </tr> <tr> <td>(e)</td> <td>Sh B D Arya</td> <td>07</td> <td>Diploma (Civil)</td> </tr> <tr> <td>(f)</td> <td>Sh Suny Dev</td> <td>02</td> <td>BE (Civil)</td> </tr> </tbody> </table> <p>As per Special Condition 39 on page 158 of CA two degree holders with minimum five years' experience and 03 diploma holders with five years' experience are required. Sh. Anil Talwar, Sanjeev Talwar and Sh Rajeev Talwar are owner/partners hence they cannot be considered as site engineers in term of clause 39(ii) on page 160 of CA. You are requested to forward reasons through CE for not deploying sufficient site engineers as per CA. Recover amount for less site engineers deployed till date of check. Forward credentials and payment details of site engineers deployed.</p>		<u>Name</u>	<u>Experience</u>	<u>Qualification</u>	(a)	Sh Anil Talwar	38	B Tech (Civil)	(b)	Sh Sanjeev Talwar	35	-do-	(c)	Sh Rajeev Talwar	32	-do-	(d)	Sh Arun Kumar	03	-do-	(e)	Sh B D Arya	07	Diploma (Civil)	(f)	Sh Suny Dev	02	BE (Civil)	Initial reply not recd.
	<u>Name</u>	<u>Experience</u>	<u>Qualification</u>																											
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(e)	Sh B D Arya	07	Diploma (Civil)																											
(f)	Sh Suny Dev	02	BE (Civil)																											
25	<p>Obsn No 25 : ITI Qualified Tradesmen. Number of ITI qualified tradesmen employed at site not found adequate as Special Condition 23 on page 154 of CA. The CA clause stipulates that the number of ITI/NICMAR/NAC qualified tradesmen shall not be less than 25% of total skilled/semi-skilled tradesmen required in each trade. No record maintained and produced for verification. You are requested to forward reasons for such deviation from CA through CE along with minus DO on this account.</p>	Initial reply not recd.																												

1	2	3
26	<p><u>Obsn No 26 : MCT (Single storied) (Pocket : 8, Fire Point : 6).</u> MS flats not found provided at the junction of columns and wall. Flats are to be provided as per PS Clause 7, Note (e) on page 185 of CA. Joints of masonry found wider than 10 mm and not filled properly. You are requested to provide flats and rectify other defects intimating cost.</p>	Settled.
27	<p><u>Obsn No 27 : Road.</u> Approach roads to ESHs, Sub Station OHTs and many other structures are found carried out/catered. At places stone soling & one layer of WBM found carried out. Thickness of WBM and soiling randomly checked and found 75 to 80mm and 130 to 140 mm respectively. Top surface of WBC found undulated and need to be properly leveled in the final & 2nd layer. Rectify defect and confirm.</p>	Please fwd rectification cost.
28	<p><u>Obsn No 28 : Stone Set Pavement.</u> Stone of following sizes found used for stone set pavement/roads. Length 220 mm to 240 mm, width 160 mm to 180 mm and thickness 150 to 160 mm. Joints found wider varying from 20 to 35 mm instead of 20 mm. At places the cement mortar in joints is coming out with slight chiselling. Cement mortar is spread over the stone surface beyond joints. Metallic hardener found inadequate at places.</p> <p>(a) You are requested to identify similar defect at all the places where stone set road has been laid and rectify defect intimating cost through CE.</p> <p>(b) As per PS clause 13.13 on page 206 of CA 100 mm PCC (M20 Design Mix) has to be provided below stone set road. Same has not been provided and quantity of concrete has also not been catered in CA. You are requested to forward reason for such deviation from specifications through CE.</p>	28 (a) (b). Initial reply not recd.
29	<p><u>Obsn No 29 : PQC.</u> PQC found provided having thickness 200 mm over WBM over stone soiling. Combined thickness of WBM & stone soiling found 280 to 300 mm.</p> <p>(a) Grooves found cut over the PQC having panel size 4.20 x 3.8 m. Groove cut at places other than joints at places. Edges of grooves found broken. Cracks found developed on PCC surface adjacent to grooves. Joint filler not provided. You are requested to identify such panels and rectify defect by demolishing and relaying PQC intimating cost through CE.</p> <p>(b) Excess cement screed/concrete found over the finished surface of helipad and need to be cleaned. Carry out cleaning and intimate cost.</p>	<p>29(a). Initial reply not recd.</p> <p>29(b). Settled.</p>

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30	<p><u>Obsn No 30 :Adm storage bldgs (Pocket 3, Fire Point 4).</u> 06 Nos bldgs of size 3.95 x 4.28 M (inner size) found constructed. No approach road found constructed/ catered to these buildings. You are requested to intimate through CE how people will approach these buildings during rainy season.</p>	Initial report not recd.
31	<p><u>Obsn No 31 : Demo Building (Pocket 6, FP : 3).</u></p> <p>(a) Demo building with RCC wall found constructed. Honey combing observed on wall surfaces. Porch column found not in plumb and bulged. Two columns are not in alignment. This is serious lapse. Rectification is not possible except cosmetic one. You are requested to confirm through CE that portico is safe. Accept penal recovery of ` . 25,000/- for poor and careless workmanship.</p> <p>(b) Compressive strength randomly checked and found 22.5, 21.5, 11, 24.50 N/mm². Compressive strength is less than acceptance criterion at places. You are requested to get core cut and tested at SEMT Wing of CME, Govt. Engineering College or Govt. approved lab & fwd results through CE.</p>	31(a) (b). Initial reply not recd.
32	<p><u>Obsn No 32 : OHT (Pocket 6, FP 3).</u></p> <p>(a) Dampness marks observed at the bottom of tank.</p> <p>(b) Cement based paint found carried out. Paint layers are coming out at places.</p> <p>You are requested to identify similar defects in all OHT and rectify them intimating cost. Also confirm through CE that there is no seepage in any tank.</p>	Initial reply not recd.
33	<p><u>Obsn No 33 : Store Room for Trolley.</u></p> <p>Heavy RCC framed structure having columns 400 X 400 mm (single storied) for a size of 4.40 M X 4.70 M found provided. RCC columns found offset by 40 to 50 mm and not in plumb. As slab has not been casted, you are requested to demolish columns and recast them intimating cost through CE. Accept penal recovery of ` . 10,000/- for poor workmanship.</p>	Initial reply not recd.

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34	<p>Obsn No 34 : Cement purchased from dealer. Cement as per description appended below had been purchased from local dealer. As per PS Clause No. 5.2.1 (a) on page 172 of CA cement has to be procured from main manufacturer. You are requested to forward test certificate for such cement and recover 20% cost of cement for violating contract conditions.</p> <table border="1" data-bbox="240 472 1134 808"> <thead> <tr> <th>Make</th> <th>Bags</th> <th>Invoice No</th> <th>Dealer</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>No Make</td> <td>420</td> <td>80</td> <td>Yadav Enterprises, Jhansi</td> <td>Sep 2017</td> </tr> <tr> <td>No Make</td> <td>514</td> <td>20</td> <td>Yadav Enterprises</td> <td>10 Aug 2017</td> </tr> <tr> <td>No Make</td> <td>660</td> <td>19</td> <td>Yadav Enterprises</td> <td>09 Aug 2017</td> </tr> <tr> <td>No Make</td> <td>660</td> <td>18</td> <td>Yadav Enterprises</td> <td>08 Aug 2017</td> </tr> </tbody> </table>	Make	Bags	Invoice No	Dealer	Date	No Make	420	80	Yadav Enterprises, Jhansi	Sep 2017	No Make	514	20	Yadav Enterprises	10 Aug 2017	No Make	660	19	Yadav Enterprises	09 Aug 2017	No Make	660	18	Yadav Enterprises	08 Aug 2017	<p>Not agreed to. Please fwd recovery as asked. Also fwd test certificate of cement procured from local dealer.</p>
Make	Bags	Invoice No	Dealer	Date																							
No Make	420	80	Yadav Enterprises, Jhansi	Sep 2017																							
No Make	514	20	Yadav Enterprises	10 Aug 2017																							
No Make	660	19	Yadav Enterprises	09 Aug 2017																							
No Make	660	18	Yadav Enterprises	08 Aug 2017																							
35	<p>Obsn No 35 : Cube Test Register. Only 03 cubes test for 07 days and 03 for 28 days for any amount of concrete poured. This is clear violation of clause 15.2.2 of IS 456 which specifies number of samples required depending on concrete poured. You are requested to intimate how concrete has been accepted without proper testing of number of samples as per IS 456. You are advised to follow IS 456 in future. Please work out number of cubes required to be casted/tested as per IS 456 depending on concrete poured and recover amount for less cubes casted and tested. Accept penal recovery of ₹. 10,000/- for lapse.</p>	<p>Please go through obsn& reply to the obsn raised.</p>																									
36	<p>(a) ESH Floor. Only 06 beams tested for flexural strength for concrete of ESH. One set of cubes tested for 07 days and 28 days strength. As per PS Clause No. 13.15.14(b)(i) on page 212 of CA, 06 beams and six cubes are to be tested for each day of concreting for each ESH. Record not produced for acceptance of concrete as per PS Clause No. 13.15.15. It is not understood how concrete has been accepted. You are requested to get core cut in each ESH and tested in SEMT Wing of CME/CTL/Govt. Engineering College/Govt. approved Lab and forward report through CE.</p> <p>(b) Pavement (Helipad, Zig Zag lane). 09 beams tested from flexural strength for concrete of Helipad. 06 beams tested for flexural for concrete of zigzag lane. One set of cube testing for 07 days and 28 days for PQC at Helipad, Zigzag lane & ESH. Testing not carried out as per PS Clause No. 13.16.27 on page 220 of CA. Record not produced for acceptance of concrete as per PS Clause No. 13.16.29.2 on page 223 of CA. It is not understood how concrete has been accepted. You are requested to get core cut in each ESH and tested in SEMT Wing of CME/CTL/Govt. Engineering College/Govt. approved Lab and forward report through CE.</p>	<p>36 (a) (b). Initial reply not recd.</p>																									

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36	<p>(c) No trial bay constructed as per PS Clause No. 13.16.14 on page 217 of CA. It is not understood how quality of PQC had been ascertained. You are requested to forward your justification through CE along with minus DO for trial bay.</p> <p>(d) Accept penal recovery of ` 25,000/- for above mentioned lapses.</p>	36 (c) (d). Initial reply not recd.
37	<p><u>Obsn No 37 : Batching Report.</u> Batching report for concrete not produced. It is not understood how quality of concrete produced has been ascertained without knowing mix per lot. You are requested to forward your justification through CE and accept penal recovery of ` 5,000/- for such lapse.</p>	Initial reply not recd.
38	<p><u>Obsn No 38 : ATT.</u></p> <p>(a) ATT purchases from Aadity Pest Specialiser Pvt. Ltd. Make of chlorpiriphose – Clorex from India Pesticides Ltd, Lucknow. 1500 Ltr chemical purchase in 20 ltrs drums. Forward total requirement of ATT chemical location/building wise, along with complete vouchers.</p> <p>(b) No independent test for chemical carried out. Forward test report of all batches of ATT chemical.</p> <p>(c) Authorized applicator certificate, IPCA & license not produced. Fwd all documents.</p> <p>(d) Accept penal recovery of ` 5,000/- for above mentioned lapses.</p>	<p>38(a). ATT calculation enclosed. Please fwdPV's.</p> <p>38(b). Please fwd independent test report.</p> <p>38(c). Settled.</p> <p>38(d) Settled.</p>
39	<p><u>Obsn No 39 : Testing.</u></p> <p>(a) <u>Steel.</u> Steel purchased from Jai Balaji Industries Ltd. Independent test carried out only for one lot. It is not understood how each lot of steel has been accepted without test. This is in contravention to CA clause No 11.6.3 on page 195 of CA. You are requested to forward justification through CE. Accept penal recovery of ` 10,000/- for such lapse.</p> <p>(b) <u>Fly Ash Bricks.</u> Chemical test for fly Ash brick not carried out. Only test for compressive strength, water absorption & efflorescence test carried out. It is not understood how cement and other ingredients have been ascertained. Forward your justification through CE. Accept penal recovery of ` 5,000/-.</p>	39 (a) (b) Initial reply not recd.

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40	<p>Obsn No 40 : Point Wiring. PVC Conduit of make KALINGA, 20 mm ISI Mark found fixed with nails in lieu of clamps. MS Sunken box of depth 55 MM in lieu of 65mm found provided. No primer found applied. Sunken box found rusted.</p> <p>(a) Provide clamps for fixing PVC conduit.</p> <p>(b) Replace MS sunken box and apply primer over sunken box.</p>	<p>40 (a). Settled.</p> <p>40 (b). Settled.</p>
41	<p>Obsn No 41 : Sluice valve. Sluice valve of size 80 mm and 150 mm make Kajeriwal, ISI Mmark IS-14846 PN-1, stainless steel spindle in lieu of brass found provided. Please replace all spindles with Brass and forward cost.</p>	Settled.
42	<p>Obsn No 42 : HT Cable. 11KV XLPE HT Cable of size 95 Sqmm unearthed of make KEI found provided. Brick protection found provided over cable. Sand above cable found 8cm and below 3cm. Provide sand as per SSR specifications and forward cost. Also forward testing report of cable before and after laying.</p>	Rectification cost of ₹ 17732.90 is accepted. Please fwd cable test report before & after laying.
43	<p>Obsn No 43 : LT Cables. XLPE LT Cables of make KEI of 35 Sqmm found laid at site. Sand found 2cm above cable and 0cm below cable. Provide sand as per SSR specifications and forward cost. Also forward testing report of cable before and after laying.</p>	Rectification cost of ₹ 5,994.80 is accepted. Please fwd cable test report before & after laying.
44	<p>Obsn No 44 : Poles.</p> <p>(a) HT Poles. Pipe make PREMIER, light Grade in lieu of medium grade, ISI mark, IS-1161. Primer found coming out at places. Poles yet to be installed. Please replace poles and provide primer. Forward cost.</p> <p>(b) LT Poles. Pipe make QST, light grade in lieu of medium grade, ISI mark IS-1161. Poles yet to be installed.</p> <p>Please replace poles & fwd cost.</p>	<p>44(a) Settled.</p> <p>44(b). Settled.</p>
45	<p>Obsn No 45 : GI Pipe. GI Pipe of following sizes checked at site :-</p> <p>“40 mm make BST, ISI marked, ISI 1239, Medium grade. Return filling not proper at places. Please rectify & fwd cost.”</p>	Settled.

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46	Obsn No 46 : PV and TC. Fwd PVs & TCs of all important B/R and E/M items :- (a) DI pipe and GI pipe. (b) NRV and Sluice valves. (c) HT, LT cables and poles. (d) DG set and centrifugal pumps. (e) Windows and frame (f) Sanitary items. (g) Transformer (h) APP Membrane (j) Proprietary materials like, Water proofing compound, ATT chemicals, OBD, Cement based paint, etc.	PV for sanitary fitting, transformer, APP membrane, proprietary items non include & IEM inspection. Also fwd TC for generator & pump.

PART 'B'

OBSNS ON ADM APPROVAL, PLG & TS

-NIL -

OBSERVATION ON CONTRACT & SITE DOCUMENT

-NIL -

OBSERVATION ON SITE INSPECTION (MAJOR)

(Satish Chander, IDSE)
STE SC Pune

MINOR OBSERVATION

CA No : CEBZ/BAB-16 OF 2015-16
Name of Work : Provn of Training Infrastructure at BFFR Babina
Amount in lakhs : ₹. 2092.51 Lakhs

-NIL-

(Satish Chander, IDSE)
STE SC Pune

IMPORTANT OBSERVATION

CA No : CEBZ/BAB-16 OF 2015-16
Name of Work : Provn of Training Infrastructure at BFFR Babina
Amount in lakhs : ₹. 2092.51 Lakhs

(Satish Chander, IDSE)
STE SC Pune