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: 020-26052869

REGSDSDS / BY POST

Superintending Technical Examiner (SC)
PCDA (SC) Complex, No.1, Finance Road
Pune – 411 001

2125/01/ **11**/Q/ADGTE

Jun 2018

Garrison Engineer(Indep) (Project)
Bldg No 443, Shanti Nagar
Nachane, Ratnagiri – 415 639

SITE VISIT :CENM-43 OF 2014-15

1. Refer inspection conducted by STE team on 04-06 Jun2018.
2. The copy of factual statement of the work is held on your record. The obsns on account of a/m 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 alongwith copy of obsns.
1. For info & necessary action. Obsn may please be replied incl conditions.
- HQ CE (Coast Guard) : 2. Please refer to Sec 23 of Manual of Contracts, 2007
Coast Guard,Air Enclave and issue suitable instruction to all other GEs under you
Dabolim, Goa 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.
3. Systematic corrective measures be instituted in all
units of your AOR (Area of Responsibility).
- Station HQ, Ratnagiri : For info please.

**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	CENM-43 OF 2014-15	Amount (in lakhs)	1929.58 lakhs	Location	Ratnagiri		
Name of Work		Provn of OTMAccn (Phase-I) at Ratnagiri					
(a)	Contractor		M/s KarunakarNayak				
(b)	Date of Commencement		12 Mar 2015				
(c)	Completion as per CA		11 Mar 2016 (Phase-I) 11 Jun 2016 (Phase-II)				
(d)	Extended date of completion		-				
(e)	Actual date of Completion		-				
(f)	DV No & Date of final bill if paid		-				
(g)	Whether ADGTE visited project (if yes, date)		-				
(h)	Name of STE / TE		Name of MESOftrs Accompanying				
	Shri Satish Chander, IDSE, STE SC Pune Shri D Suresh Reddy, IDSE, SE(NF), TE Lt Col BhaskarRautela, TE Shri Manish Raj, IDSE, TE		Shri Kislay Kishore, IDSE, GE Shri Amar Singh Dhanua, AGE B/R Smt. SunitaGardi, AGE E/M				
(k)	Inspection Summary :						
	No Inspection	Ist Check		2nd Check		3rd Check	
(i)	Date of Check	05 Jul 2016		04-06 Jun 2018		-	
(ii)	Progress %	Actual	Target	Actual	Target	Actual	Target
		52.20%	-	75.10%	-	-	-
(iii)	Obsn Nos Raised	Ist	25	2nd	17	3rd	-
(iv)	Total Obsn Raised	42					
(v)		Minor	Maj	Adv	Minor	Maj	Adv
		01	25	-	-	17	-
(vi)	Obsn Split	B/R	E/M	B/R	E/M	B/R	E/M
(vii)		25	-	14	03	-	-
(viii)	Total Settled	12	-	-	-	-	-
(ix)	Outstanding Obsn	13	-	14	03	-	-
(x)	Outstanding Obsn (Check wise)	-	-	-	-	-	-
(xi)		IRNR	13	IRNR	17	IRNR	
(xii)	Net Outstanding Obsns		30				
(xiii)	Date of Expiry of DLP (where wk 100% completed)						

CA No : CENM-43 of 2014-15
Name of Work : Provn of Phase-I OTMAccn at Ratnagiri.
Amount in lakhs : ₹. 09,29,58,000.00

PART - A : REVIEW ON 1ST CHECK

General (Brief Scope of Work). CA No CENM-43 of 2014-15 :“Provn of OTMAccn (Phase-I) at Ratnagiri” has been accepted by CE (Navy) Mumbai for ₹.9,29,58,000=00. 25 Nos of obsnsraised during 1st check on 05 Jul 2016. During 2nd check on 04-06 Jun 2018, previous check verified on ground and remarks appended against each obsns :-

No	Obsns	Present Status
1	2	3
1	<p><u>Obsn No 01 :Delay in Tendering & Slow Progress.</u></p> <p>(a) The work “ Provn of Phase-I OTMAccn at Ratangiri was released on 15 Feb 2013 with PDC of 156 weeks. The contract was accepted for Rs 9.29 Crore on 27 Feb 2015 with date of commencement on 12 Mar 2015, thus taking more than 24 months for conclusion of contract. No fresh Adm Approval found obtained as per para 2(C) of DWP-2007, which states that “ if an approved work has not commenced within one year of date of Adm Approval, a fresh Adm approval of CFA should be taken”. Please take necessary action for regularization of above lapses and forward your replies through CE.</p> <p>(b) The date of commencement of work is 12 March 15. The original date of completion are 11Mar 2016(Ph-I) & 11 June 2016(Overall work) respectively. Phase I of CA i.e. Sample Quarters (Officers mess and servant quarters) as given in para 2 of Sch ‘A’ notes, not found completed even through ODC had expired in Mar 2016. The extended date of completion for phase I also expired in June 2016. The progress of sample quarters found 72 % & overall progress of work 52%. Phase-I is likely to take further 6 to 8 months if work progresses with present pace. The work is very slow and the PDC of the job had also expired on 13 Jul 2016.</p> <p>(i) Work is not likely to be completed by due date of completion if the present state of progress continues. Please forward the specific reasons for the delay and action taken to expedite the completion of work.</p> <p>(ii) It is observed that no action has been taken to enhance the job PDC from CFA which had expired. Please take requisite action and ensure that the job PDC is enhanced before granting any extension of time to the contractor.</p>	<p>(a) Settled.</p> <p>(b) (i to v) Extremely slow progress.</p>

1	2	3
	<p>(iii) Please identify the problem areas in execution of work and take remedial actions to expedite the progress of the work.</p> <p>(iv) Since progress of the work is very slow, please intimate why requisite action has not been resorted to in terms of E-in-C's Branch policy letter No. 16/2014 issued vide letter No A/37696/OSDPL/POL/E2(PPC) dt.13 Aug 2014 which states clearly that "Contracts having period of completion more than twelve months shall have performance evaluation meetings at intervals of every six months from the date of commencement indicated in work order No. 01. These shall be held at the work site on a date fixed well in advance to ensure presence of all concerned. These meetings shall be attended by the Accepting Officer, CWE, GE,AGE, representatives of CE's office [E8, E2 (Design), E6, E2 (Planning) and E4], contractor and the PMG. The present progress of wk and reasons for any delay shall be analysed and time-bound action plan to remove any encumbrances/bottlenecks will be discussed in detail. In case extension of time is contractually and circumstantially due, it shall be deliberated upon."</p> <p>(v) Fwd your reply through AO.</p>	
2	<p><u>Obsn No 02 : Foundation Depth for Compound wall.</u></p> <p>Depth of foundation found measured 1.5m below ground. The work is being carried out in soft and disintegrated rock. Old wall adjacent to site is constructed at ground level and is still in good condition. Considering the ground conditions, the foundation depth of column footing could have been reduced to minimum depth 0.5 meter as per IS 1904/13063 provisions in lieu of keeping depth as 1.5 m. By keeping 1.5 meter depth infructuous expenditure has been done. Please fwd your reply through CE.</p>	Settled
3	<p><u>Obsn No 03 :Adm Block.</u></p> <p>(a) Reinforcement found exposed without casting (beams for duct in front of toilet) in front side of building. In Chajja portion also reinforcement is left out without casting. Now casting will not have monolithic effect. You are requested to explain why casting was not carried out monolithically. Please accept penal recovery of Rs 5000/- for these lapses.</p> <p>(b) Seepage/dampness observed in slab portion, junction of wall/slab/portion (inside). You are requested to rectify the defects and intimate cost.</p>	<p>(a) Settled.</p> <p>(b) Settled.</p>

	<p>(c) Green marble stone cill having thickness 15mm in lieu of 18 mm found provided in Adm block through DO. Replace the marble with proper thickness and intimate cost.</p> <p>(d) Three vertical drops of RCC in first floor of Adm block found inclined/bulged. Demolish the defective drops and reconstruct them intimating cost.</p> <p>(e) Accept penal recovery of Rs 10,000/- for poor workmanship.</p>	<p>(c) Please fwd copy of amended DO</p> <p>(d) Settled</p> <p>(e) Settled Could not be checked as bldg are scattered.</p>
4	<p><u>Obsn No 04 : Plaster and Grooves.</u></p> <p>(a) No grooves found out at junctions of dissimilar materials inside/outside in all buildings. Cracks observed at these joints. Please provide grooves for all buildings uniformly and intimate cost.</p> <p>(b) Internal cement plaster found uneven and undulating even after application of white colour wall putty at places. Rectify the defect and intimate cost.</p>	<p>Partially rectified.</p>
5	<p><u>Obsn No 05 :Chicken Wire Mesh.</u> Chicken wire mesh not found provided at junctions of 5dissimilar materials inside. Mesh of size 22mm aperture in lieu of 12 mm aperture and 0.4mm dia in lieu of 0.56 mm dia provided at few places outside. Width found 75 to 100mm in lieu of 150 mm that to provide on one side of junction there by defeating the basic purpose. Mesh not provided at most of junctions. You are requested to provide mesh of proper aperture and thickness at all junctions and intimate cost.</p>	<p>Partially rectified.</p>
6	<p><u>Obsn No 06 :Laterite Block Masonry.</u></p> <p>(a) The size of laterite block found 350 to 370 mm length, 200 mm width and 180 mm thick. As per PS Clause No 9.2(c) and IS 3620 dimension should be 390 x 190 x 190 mm with tolerance of 05 mm. You are requested to intimate the reason for not adhering to CA. Please accept penal recovery of Rs 10000/- for this lapse.</p> <p>(b) Joints of masonry found wider (20 to 40mm) and not filled properly at places. Joints of masonry are not raked at places. Rectify the defect where ever possible and intimate cost. Accept penal recovery @ Rs 25 per sqm for places where defect cannot be rectified.</p> <p>(c) Holes left for scaffolding in masonry work. Please rectify all defects and intimate cost.</p>	<p>(a) Settled</p> <p>(b) Settled</p> <p>(c) Settled</p> <p>Could not be checked as walls are plastered.</p>

1	2	3
7	<p><u>Obsn No 07 :Kota Stone Flooring.</u></p> <p>(a) 18mm to 22mm thick in lieu of 25 mm thick Kota stone of size 56 to 59cm length and 40cm to 43cm wide found laid over loosely spread sand with cement slurry on top in lieu of 20 mm thick cement screed in CM 1:3 for fixing stone. Please remove and redo Kota stone flooring as per CA specifications intimating cost of rectification. Accept penal recovery of Rs 10000/- for poor workmanship.</p> <p>(b) The combined thickness of PCC and stone hard core found 130mm in lieu of 175mm (75 mm PCC& 100 mm Stone hard core) below Kota stone. Please rectify defect else forward recovery if it is technically acceptable.</p>	Settled
8	<p><u>Obsn No 08 :Formwork& Shuttering.</u> Old wooden/deshaped ply wood found being used for shuttering. Concrete found bulged especially at RCC vertical fins & columns. Wooden formwork found used in lieu of steel box shuttering for columns. As per PS clause No. 8.16(C) of CA, the formwork shall be of MS plates of adequate strength. PS Clause No 8.16 (h)(iii) specifies that prefabricated steel box type form work will be used for columns. Kindly replace all old plywood with steel plates/boxes of adequate straight and forward replacement cost. Accept a penal recovery of Rs 10000/- for deviating from CA provisions.</p>	Settled
9	<p><u>Obsn No 09 :Half Brick Wall.</u> No reinforcement found provided at every 4th layer. Also, RCC band at lintel not found provided over the half brick wall. Please rectify defects duly intimating cost.</p>	Rectified.
10	<p><u>Obsn No 10 :Seepage/Dampness.</u> Seepage/dampness found observed in all buildings from slabs and at junction of roof beams & wall of external walls. Being coastal area, void in RCC will lead to speedy deterioration of reinforced bars. This needs to be addressed immediately to avoid further degradation of RCC by means of pressure grouting. Please take remedial measures on priority and confirm along with rectification cost duly supported by photographs. Forward your reply through AO. Accept penal recovery of Rs 25000/- for poor workmanship.</p>	Seepage marks observed at places.
11	<p><u>Obsn No 11 :Batching Plant.</u></p> <p>(a) Reversible mixer Make: Universal model RM 800 found at site having capacity of 10 to 12 cum/hr. As per PS Clause 8.14 (a) Minimum capacity of batching plant should be 30 Cum/hr. It is undue benefit given to contractor. Fwd reasons for using lower capacity plant through CE. Work out cost saved by contractor and intimate. Accept penal recovery of Rs 25000/- for not adhering to CA provisions.</p>	(a) Settled

1	2	3
	<p>(b) No printing mechanism found for taking batching reports. No batching record maintained at site. It is not understood how quality of concrete has been maintained at site. Fwd your reply through CE.</p>	<p>(b) Settled</p>
<p>12</p>	<p><u>Obsn No 12 :Stacking of Materials.</u> Building materials are not found stacked properly at site and lying haphazardly.</p> <p>(a) Course aggregates, sand found stacked on open/undulated ground haphazardly.</p> <p>(b) White salt deposit found over the fine orange coloured sand. The source of this sand (Silica sand) is a stone crusher. Sand is being used for plaster. No chemical testing found carried out. As per CA/SSR only natural river sand is to be used for plaster. Kindly intimate reasons for using this type of sand for plaster. Carry out chemical and physical tests of sand from SEMT/IIT/Govt Engineering college and intimate results through CE.</p> <p>(c) Cement (53 grade Ultra Tech, 26 week) found stacked in 12 bags vertically, in small tin shed. No dunnage found except tarpaulin sheet.</p> <p>Please stack all materials properly as per CA provisions confirm & intimate cost. Accept penal recovery of Rs 10000/- for deviation from CA provisions</p>	<p>(a& c) Settled</p> <p>(b) Awaiting test report of some materials.</p>
<p>13</p>	<p><u>Obsn No 13 :Compressive Strength Using NDT.</u> Compressive strength of RCC columns have been checked randomly using rebound hammer and values recorded varying from 20.5N/Sqmm, 28.5N/Sq mm, 31N/Sq mm & 12.5N/Sq mm for M-30 concrete. This is less as per IS 456. Please get the confirmatory core tests carried out from SEMT wing, CME Pune/IIT/ Govt Engineering Collage and forward results duly endorsed by Chief Engineer.</p>	<p>Awaiting test report</p>
<p>14</p>	<p><u>Obsn No 14 :RCC Work.</u></p> <p>(a) Honey combing in concrete observed from bottom of slabs, chajjas (service center & living in accn).</p> <p>(b) Some columns found twisted in adm block.</p> <p>(c) Reinforcement not properly supported and found bent above ground floor slab in Living in accommodation. Some starters of columns found out of alignment, as cover was varying in living in accn (8 Nos).</p>	<p>Plastering found carried out. Could not be checked.</p>

1	2	3
	<p>(d) Uniformity of cover to reinforcement not maintained. The cover varying from 20 to 80mm found at places.</p> <p>(e) Stirrups are bent in 90° only in lieu of 135°. The leg length found 66 mm instead of 10 x dia.</p> <p>(f) Reinforcement bars from different manufactures found used in single column/beam.</p> <p>(g) Lapping of main bars of column (50%) found at slab level.</p> <p>(h) Reinforcement found rusted at places.</p> <p>Rectify the defect and intimate cost. Recover the amount from contractor where rectification is not possible and work is technically acceptable to GE. Accept penal recovery of Rs. 10000/- for lapses.</p>	
15	<p><u>Obsn No 15 : Crumple Joint.</u> Crumple joints not filled with bituminous filler complying requirement of IS 1838. Fill the joints with bituminous filler & intimate cost.</p>	Rectified.
16	<p><u>Obsn No 16 : Compound Wall.</u> Following defects observed :-</p> <p>(a) Joints of masonry found 20 to 45mm and not filled properly. Raking of joints is not done.</p> <p>(b) Short length dowels 20cm to 50 cm found left out of column for RCC band and anchorage length found inadequate.</p> <p>(c) Thickness of RCC band found 90 to 110mm. Uniformity of band not maintained.</p> <p>(d) Crumple joint found eccentric (not at center of two columns) and width of joints found varying from 20 to 60mm at places. Please rectify defects and intimate cost. Accept penal recovery of Rs. 10000/- for the lapses.</p>	<p>Rectified.</p> <p>Balance work is in progress.</p>
17	<p><u>Obsn No 17 : Stagnation of Water Near Compound Wall.</u></p> <p>Water found stagnated near the compound wall as surrounding ground level is sloping towards wall. No weep holes found provided. Please provide weep holes and adequate drainage system to avoid any damage to the wall due to water stagnation. Please intimate cost.</p>	Partially rectified.
18	<p><u>ObsnNo 18 : Qualified Tradesmen.</u> Number of ITI qualified tradesmen employed at site not found adequate as per PS clause No 1.36 on page 129. 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. Kindly forward your comments for such deviation from CA s through AO along with minus DO on this account.</p>	Awaiting reply from AO.

1	2	3									
19	<p><u>Obsn No 19 :Site Engineers.</u> Only two diploma site engineers, as given below found deployed by contractor at site. It is observed that the site Engineers employed by the contractor are inadequate and not as per condition 25 (a) of IAFW-2249. Please elucidate why the contractor was allowed to progress the work when the adequate number of Engineers were not deployed at site. Forward the recovery on account of the amount saved by contractor due to non-deployment of the qualified Engineers as per IAFW-2249 for our perusal.</p> <p>(a) Shri BichitraNahak, DCE with 05 years experience.</p> <p>(b) Shri ArunGurav,DCE with 05 years experience.</p>	Awaiting reply. revised									
20	<p><u>Obsn No 20 : Site Lab.</u> Site labfoundveryill-equipped and housed in a smalltemporary shed with tin sheet roof. All necessarytestingequipmentsrequired for site lab for conductingspecifiedtests('A' Type) not foundinstalled by the contractor. as per CA clause No 5.3 on page No. 138 (R). One Compressive testing machine (hand operated, not calibrated and not functioning properly), slump testing instrument, sieves, weighing machine, found in temporary tin shed. No oven found. It is not understood how moisture test and other tests have been carried out. Please ensure that the site lab is fully equipped with serviceable and calibrated equipments as per CA provisions and confirm alongwith your comments through AO. Also ensure that power operated CTM is installed for testing of compressive strength of PCC cubes and blocks. Please accept penal recovery of Rs 25000/- for not establishing fully equipped lab.</p>	Awaiting reply. revised									
21	<p><u>Obsn No 21 :Procurement of Materials from Local Dealers.</u></p> <p>(a) <u>Cement.</u> Cement (16890 bags) found procured from authorized dealer M/s Indulkar Enterprises in lieu of main producer as per PS Clause No1.3(a) on page 207 of CA.</p> <p>(b) <u>Steel Reinforcement.</u> Steel reinforcement as per details given below found procured from local dealers as per description given below in lieu of main producer as per PS Clause No 12.3(b) on page No. 155(R).</p> <p>(i) <u>M/s HemaEntreprises.</u></p> <table border="0" data-bbox="335 1758 965 1870"> <tr> <td>8mm φ</td> <td>-</td> <td>1.1 Ton</td> </tr> <tr> <td>10mm φ</td> <td>-</td> <td>7.620 Ton</td> </tr> <tr> <td>16 mm φ</td> <td>-</td> <td>0.97 Ton</td> </tr> </table>	8mm φ	-	1.1 Ton	10mm φ	-	7.620 Ton	16 mm φ	-	0.97 Ton	Awaiting reply. revised
8mm φ	-	1.1 Ton									
10mm φ	-	7.620 Ton									
16 mm φ	-	0.97 Ton									

	<p>(ii) <u>M/s Mahalakshmi Traders.</u></p> <p>10 mm ϕ - 33.28 Ton 8mm ϕ - 4.03 Ton 25 mm ϕ - 5.34 Ton 12 mm ϕ - 15.47 Ton 16 mm ϕ - 14.36 Ton 20 mm ϕ - 16 Ton</p> <p>(iii) <u>M/s Praveen Traders</u></p> <p>16 mm ϕ- 10.42 Ton 20 mm ϕ- 7.74 Ton 25 mm ϕ - 7.24 Ton</p> <p>Independent tests for all properties not carried out batch wise for steel procured.</p> <p>Please explain the reasons for procurement of Cement and Steel bars from local dealers in lieu of from original manufacturers as per CA provisions through CE. Also recover @ 10% of cost of material for procurement through local dealers.</p>	
22	<p><u>Obsn No 22 : Site Documents.</u> It is noticed that no sincere efforts are made in maintaining site documents and its updation. Following lapses are observed.</p> <p>(a) <u>ATT.</u> Only one independent test carried out. Vouchers of ATT not produced.</p> <p>(b) <u>Site Order Book.</u> Compliance of defects rectification not endorsed. Defects found not rectified on ground.</p> <p>(c) <u>Hindrance Register.</u> Period of hindrances not mentioned and not maintained properly. No hindrance other than time taken to implement decision recorded.</p> <p>(d) <u>PMG Register.</u> Not updated. No remarks about quality of work given by PMG</p> <p>(e) Aggregate test register not found updated after Feb 2016. Fine aggregate not found tested at regular intervals.</p> <p>(f) <u>Cube Register.</u> Cube register not found maintained properly. Number of cubes not found casted as per IS 456. Only one set of cubes tested for 7 days & 28 days for any amount of concrete work. Recorded values are less than acceptance criteria.</p>	Documents updated.

	<p>(g) Method statement not maintained.</p> <p>(h) <u>Design Mix.</u> Design mix report is not as per IS 4926 & IS 10262. Only summary of one trial mix produced. Design mix not approved by CE.</p> <p>(j) Wooden chowkhats test report not produced.</p> <p>(k) Calibration of mechanical mixer &CTM not produced.</p> <p>(l) Independent testing for each lot of cement not carried out. Only four independent test carried out.</p> <p>(m) Independent testing for each lot of steel not carried out.</p> <p>(n) Water is being supplied by contractor. Only one test found carried out. Please carry out tests on water at regular intervals and forward the report.</p> <p>PI updates the records and carryout all requisite tests as per CA provisions & fwd test reports. Accept penal recovery of Rs 25000/- for not carrying out test. Forward your reply through CE.</p>	
23	<p><u>Obsn No 23 :WBM.</u> Aggregates without proper grading found laid over the natural ground. No screenings/moorum found used to fill voids. Leveling not carried out. Size of aggregates found less than 40mm & more than 63mm at places. Thickness of WBM measured 7.5cm where as payment for 15cm thick found made for parade ground & road. Rolling found not done properly. No stack measurement found recorded in MB or otherwise. Rolling register not maintained. Please recover excess amount paid and rectify defects duly intimating the cost.</p>	Not rectified. No progress in the work.
24	<p><u>Obsn No 24 : E/M.</u> Following were observed:-</p> <p>(a) Clamping to conduits not found carried anywhere. Provide clamps and intimate cost.</p> <p>(b) Depth of sunken box found 50mm in lieu of 65 mm. Replace all boxes and intimate cost.</p>	Partially rectified.
25	<p><u>Obsn No 25 : Steel Scrap.</u> Steel cut pieces (Scrap) not deducted from RAR. Please workout the excess amount paid and recover from next payment.</p>	Settled.

PART 'B'

OBSNS ON ADM APPROVAL, PLG & TS

-NIL -

OBSERVATION ON CONTRACT & SITE DOCUMENT

-NIL -

OBSERVATION ON SITE INSPECTION (MAJOR)

26. **Obsn No 26: Roof Treatment.** APP membrane found provided using torching application with end over lap 150 mm and side overlap 100 mm. Membrane not found stucked properly at places. PCC coping not provided at junction of vertical faces & membrane is stucked at 90 degrees. Grooves are not cut in vertical surfaces and membrane is stucked directly on the wall surface. Water stagnation marks observed. Notches not made near spouts. Gaps also observed around pipes. Aluminium paint applied over APP membrane.

In view of the above, carry out the following :-

- (a) Rectify defects & intimate cost.
- (b) Please fwd certificate of approved applicator.
- (c) Please fwd PV & TC.

27. **Obsn No 27 : Paver Blocks.** 59-60mm thick PCC paver blocks of make "Topaz" found provided over 40-45mm thick stone crushed sand. ISI mark not found on tiles. Please replace the paver blocks with make & ISI mark as mentioned in CA or accept recovery @ 10% of cost of material if technically acceptable to GE. Also fwd independent test report of the paver blocks.

28. **Obsn No 28 :Sewage Pipes.**

- (a) 145 mm to 150mm dia (Internal) RCC, NP2 pipes found used. Make and Grade not marked on pipes. Some pipes found cracked at places. Please replace the pipes with ISI marked pipes of proper grading & intimate cost.
- (b) 300mm diaRCC, NP2 pipes found lying at site. Make and ISI are not marked on pipes. Thickness25mm. Please replace the pipes with ISI marked pipes of proper grading & intimate cost.

29. **Obsn No 29 : Tiles.**

- (a) Chequered Tiles. Chequered tiles of size 300x300x25mm thick tiles found lying at site. Make and ISI are not marked on tiles. Please replace chequeredtiles with ISI marked tiles & intimate cost.
- (b) Tiles. Vitrified tiles of size 600x600x9.8mm thick. Make 'Nitco' found provided. Joints found wider and not filled. Please rectify the defects & intimate cost. Also fwd PV & TC of vitrified tiles, wall tiles & floor tiles.

30. **Obsn No 30 : Plinth Protection.** Plinth protection getting damage at many places near Adm block due to erosion of sub base below it. Rectify defects and intimate cost.

31. **Obsn No 31 : Panelled Door.** 36mm thick wooden paneled door of make 'Pioneer' found provided. Sliding aluminium bolt 300mm length with 15.3mm dia, Aluminium D-handle 200mm length with 10.6 mm dia and tower bolt 200mm length with 9.7 mm dia found provided. All Aluminium fittings are of make 'Shalimar' and ISI mark. Please fwd PV & TC.

32. **Obsn No 32 : Aluminium Doors.** Aluminium powder coated door found provided, make of which could not be ascertained. 10 to 20 mm side gap found around the frame. Floor spring of make 'Amtop', non ISI found provided. Glass of thickness 5.8 mm of make 'Saint Gobain' found provided.

In view of the above, please carry out following :-

- (a) Fill the gap between Aluminium frame & wall & intimate cost.
- (b) Replace floor spring with ISI marked floor spring & intimate cost.
- (c) Fwd PV & TC of all items.

33. **Obsn No 33 : Aluminium Windows.** Three track powder coated windows provided. Make could not be ascertained. Gaps found around the frame. 6.56x4.4mm aluminium grill having aperture of size 92x73.6 mm found provided. 6mm thick glass of make 'Saint Gobain' found used. In view of the above, please carry out the following :-

- (a) Rectify the defects & intimate cost.
- (b) Fwd PV & TC of all items.

34. **Obsn No 34 : PVC Door.** 37mm thick PVC moulded door found provided using stainless steel hinges of make 'Omega'. Gaps around the chowkat observed and have not been filled properly. Poor quality aluminium fittings used. Please rectify the defects & intimate cost. Also fwd PV & TC.

35. **Obsn No 35 : Sanitary Fittings.** Following items found provided :-

EWC	:	CERA
Flushing Cistern	:	Jindal
Bib tap, Piller cock, Angle cock	:	Jaquar
WHB	:	Oval shaped WHB 50 x 36 cm, make 'CERA'

Please fwd PV & TC of all items.

36. **Obsn No 36 : PVC Water Tanks.** PVC water tanks, make 'Sintex', double layer, non-ISI marked found provided. Please replace with ISI mark & intimate accost or accept recovery @ 10% of cost of material if technically acceptable.

37. **Obsn No 37 : Kota Stone.** 21-22mm thick kota stone found used for flooring and stair cases. Joints found wider varying from 3 to 4mm and not filled properly. Pigment not found used. Please rectify all the defects & intimate cost.

38. **Obsn No 38 : PVC Pipes.**

(a) 110mm dia, PVC pipes, SWR, ISI marked, type- A used for soil pipes& storm water drainage. Fittings of make PARAS, ISI found used. Fwd PV & TC.

(b) PPR pipes DN- 25, make Supreme Indo Green found used for water supply.Fwd PV & TC.

39. **Obsn No 39 : Material lying at Site.**

(a) Transformer.250 KVA, 11/433 KVA, make 'PACTIL'. Please fwd PV, TC &commissioning report.

(b) HT Cable.3 Core 95 Sqmm, 11 KV (E) of make 'KEI'. Please fwd PV & TC. Also fwd before & after laying test report of cable.

(c) LT Cable. The following size cables of make'KEI' found provided :-

- (a) 6 Sqmm x 2 Core
- (b) 10Sqmm x 2 Core
- (c) 300 Sqmm x 3.5 Core
- (d) 25 Sqmm x 3.5 Core
- (e) 10 Sqmm x 4 Core
- (f) 240 Sqmm x 3.5 Core
- (g) 70 Sqmm x 3.5 Core
- (h) 50 Sqmm x 3.5 Core

Please fwd PV & TC. Also fwd before and after laying test report of cable.

40. **Obsn No 40 : Fan Regulator.** Fan regulator of make 'Anchor', non ISI found provided. Please replace it with make and ISI mark as mentioned in CA & intimate cost.

41. **Obsn No 41 : Sunken Box.** Earthing of sunken box not provided yet in Adm Block. Please provide the same & intimate cost.

42. **Obsn No 42 : Slow Progress.** Work has not progressed at all in last three months. The extended date of completion of work was 22 May 2018 which has already expired. Please fwd specific reasons for delay and action taken to expedite the completion of work through AO.

(Satish Chander, IDSE)
STE SC Pune

MINOR OBSERVATION

CA No : CENM-43 of 2014-15
Name of Work : Provn of Phase-I OTMAccn at Ratnagiri.
Amount in lakhs : ₹. 09,29,58,000.00

- Nil -

(Satish Chander, IDSE)
STE SC Pune

IMPORTANT OBSERVATION

CA No : CENM-43 of 2014-15
Name of Work : Provn of Phase-I OTMAccn at Ratnagiri.
Amount in lakhs : ₹. 09,29,58,000.00

01. **Obsn No 26: Roof Treatment.** APP membrane found provided using torching application with end over lap 150 mm and side overlap 100 mm. Membrane not found stucked properly at places. PCC coping not provided at junction of vertical faces & membrane is stucked at 90 degrees. Grooves are not cut in vertical surfaces and membrane is stucked directly on the wall surface. Water stagnation marks observed. Notches not made near spouts. Gaps also observed around pipes. Aluminium paint applied over APP membrane.

In view of the above, carry out the following :-

- (a) Rectify defects & intimate cost.
- (b) Please fwd certificate of approved applicator.
- (c) Please fwd PV & TC.

02. **Obsn No 42 : Slow Progress.** Work has not progressed at all in last three months. The extended date of completion of work was 22 May 2018 which has already expired. Please fwd specific reasons for delay and action taken to expedite the completion of work through AO.

(Satish Chander, IDSE)
STE SC Pune