Series: AWM95
Australian Army commanders' diaries
[Vietnam]

Engineer units

Item number: 4/4/46

Item: 17 Construction Squadron

Annexes J-O

[1-30 Apr 1969]

ANNEX J 1 TO
COMDS DIARY
APR 69

17 Const Sqn RAE
VUNG TAU

3 Apr 69

Distr (See below)

ITINERARY FOR VISITING CMF OFFICER-
MAJ MALSEED: 3 APR - 16 APR 69

Thu 3 Apr		Arrive VUNG TAU Wallaby 2.
	1030 - 1200	Briefing by 2IC on 17 Const Sqn
	1315 - 1600	Inspection of Works - Works Offr
	1600 - 1700	Inspection of RAEME Wksp - WO1 DICKENSON
Fri 4 Apr	0700 - 1200	Inspect MSR Works OC & Wks Offr
	1315 - 1700	Inspect Res Tp and Water Points- Capt TAYLOR.
Sat 5 Apr	0730 - 1200	9 Tp Works and Tour of VUNG TAU - Lt McCANN
	1315 - 1700	Civil Affairs - Meet Maj EVANS - 1 ALSG Offrs Mess
Sun 6 Apr		Free Day. Alternatives: Range with Res Tp, Swimming, sailing.
		Depart VT Wallaby 3 (1510) for NUI DAT. Accommodation arranged at Det 17 Const Sqn
Mon 7 - Tue 8		Civil Affairs 0730 - 1700 each day - Lt Col GRATION
Wed 9 - Thu 10		1 Fd Sqn 0730 - 1700 each day - Capt FISHER
		Return VT by helicopter 1800 hrs 10 Apr. (To be arranged by Det 17 Const Sqn)
Fri 11- Sat 12		Tour of 1 ALSG - HQ 1 ALSG arrangements.
Sun 13Apr		Free Day
Mon 14 Apr		Wallaby 1 to NUI DAT - Inspect Det 17 Const Sqn Works - Capt BARKER
		Return to VUNG TAU Wallaby 4.
Tues 15 Apr		To be programmed .
Wed 16 Apr		RTA

(E.J. WERTHEIMER)
Maj
OC

Distribution

17 Const Sqn Wksps
9 Tp
10 Tp
Plant Tp
Mech Tp
Res Tp
HQ Tp

OC
2IC
OC Det 17 Const Sqn
Works Offr VUNG TAU
Works Offr NUI DAT
Maj MALSEED
Tpt WO
MOVEMENTS Clerk
File

For Info

HQ 1 ALSG (GSO 2)
1 ACAU
1 Fd Sqn
CE AFV

ANNEX I2 TO
COMDS DIARY
APR 69

R540-1-1

Works Office
17 Const Sqn RAE
VUNG TAU

Apr 69

List C

VUNG TAU WEATHER RECORD

1. The attached information on the weather conditions in Vietnam was supplied by 5th Weather Squadron USAF.

2. Annex A is a summary of temperature and humidity reading taken in VUNG TAU over the last 25 years up until Mar 69.

3. Annex A will be updated monthly on request to this office.

(W. CREWS)
Capt
Const Offr

Annexes: A. Met data VUNG TAU area.

WEATHER IN THE REPUBLIC OF VIETNAM
(SOUTH VIETNAM)

The weather in the Republic of Vietnam is largely determined by the wind regimes, or monsoonal flow, and the effects of topography on this flow. Polar frontal systems are infrequent and are limited to the extreme northern portion of the Republic.

The Chaine Annamatioue represents the largest topographic influence on the weather of South Vietnam. This rugged mountain chain is oriented almost perpendicular to the two monsoonal wind flows which dominate the area for most of the year.

The effects of topography upon the general wind flow are treated further in the discussion of monsoonal regimes.

The monsoonal regimes are controlled by the Siberian anticyclone during the winter portion of the year and by the Asistic cyclone and the Indian Ocean anticicyclone during the summer season. The annual wind regime is divided into four periods:

(1) Northeast Monsoon Period: Mid-November to mid-March
(2) Spring Transition Period: Mid-March to mid-May.
(3) Southwest Monsoon Period: Mid-May to early October.
(4) Autumn Transition Period: Early October to mid-November.

A. NORTHEAST MONSOON PERIOD (MID-NOVEMBER TO MID-MARCH): The air streams that make up the northeast monsoon have their origin in the cold dry Siberian anticyclone and the relatively moist North Pacific anticyclone. As the cold dry Polar Continental air from Siberia flows southward toward the equitorial low pressure area, the air is gradually heated by contact with the warmer China coast and the waters of the China Sea, merging with the warm, moist maritime tropical air from the Pacific, over the South China Sea, it arrives in South Vietnam much warmer and with more moisture. In comparison with the southwest monsoon, however, the northeast monsoon is relatively cool and dry.

The northeast monsoon is a period of partly claudy skies with relatively frequent clear skies over all regions except the eastern coastlands. The normal sequence begins with clear or scattered clouds from 2300H until 0400H when stratus frequently forms over the rivers and drifts over the nearby areas. The stratus tends to break up as the morning progresses and by 0900H it is generally clear again. With continued heating, scattered cummulus clouds develop and by mid-afternoon and evening scattered to broken cloud conditions are common although complete overcast conditions are rare. Over the eastern coastlands, cloudiness reaches a maximum in December when the "crachin" period sets in. Periods of low overcast skies with drizzle or light rain and poor visibility prevail over most of the northern coast and sometimes reach into the river valleys and on into the interior.

B. SPRING TRANSITION PERIOD (MID-MARCH TO MID-MAY): The spring transition period lasts from mid-March to mid-May. Weakening of the Siberian high pressure causes a retreat of the northeast monsoon at that time. The circulation over South Vietnam becomes weak and rather confused until late April or Early May. The ITCZ (Inter-Tropical Convergence Zone) passes over the area on its northward movement and the southwest monsoon begins.

During this period of weak and variable circulation, temperatures reach their maximum over all of South Vietnam except in the eastern coastlands. Overall cloud amounts increase in all areas except the eastern coast. Thunderstorm frequency increases and some during this period are extremely violent.

C. SOUTHWEST MONSOON PERIOD (MID-MAY TO EARLY OCTOBER): The air streams that dominate this season originate in the semi-permanent high pressure cells over Australia and the Indian Ocean. This flow results from the dynamic balance between the two Southern Hemisphere high pressure areas and the semi-permanent Asiatic low pressure zone. The stream of air originating in Australia is warm, stable and very dry. It is rapidly modified in its passage over the warm equatorial waters, and by the time it merges over Sumatra and Malaya with the flow from the Indian Ocean, it is very moist and unstable in the lower layers. By the time it arrives over South Vietnam, the combined air flow is definately tropical maritime in nature, resulting in fairly homogeneous temperatures and humidity conditions over most of the area.

The southwest monsoon, ushered in by the ITCZ in its northward migration, brings much low cloudiness, heavy showers, and thunderstorms to the area. In the eastern coastlands there is only a slight increase in cloudiness, precipitation, and thunderstorm activity. Over most of the area the first surges of southwesterly flow are marked by heavy cumulonimbus clouds and severe thunderstorms. By June, the weather follows a regular pattern, with almost daily showers, most of which occur during the afternoon or early evening. These showers are basically the result of afternoon convective activity and orographic lifting. In heavy showers and thunderstorms, ceilings and visibility are reduced to almost zero for short periods.

D. AUTUMN TRANSITION PERIOD (EARLY OCTOBER TO MID-NOVEMBER): This transition period, shortest of the four seasons, occurs from early October to mid-November as the southwest monsoon retreats before the advancing northeast monsoon. The changeover from one flow to the other is often abrupt. This season is accompanied at some locations by an increase in thunderstorm activity, particularly as the ITCZ passes over. During the latter part of the season, conditions rapidly approach those of the northeast monsoon.

The autumn transition is a period of decreasing cloudiness and precipitation with one major exception; the eastern coastlands where the changing airflow results in an onshore and upslope flow as the air encouters the eastern slopes of the Chaine Annamatique. In this region then, this season is the time of maximum precipitation and near maximum cloudiness. Added to this is the increased precipitation and cloudiness resulting from occassional typhoons or tropical storms which move into the South China Sea and the Gulf of Tonkin.

E. TOPOGRAPHIC INFLUENCES: The largest topographic influence on the weather of South Vietnam is that of the Chaine Annamatique. These series of old eroded plateaus are oriented almost perpendicular to the monsoonal wind flows which dominate the area most of the year. During the southwest monsoon, the lifting provided by this ridge increases the processes of convective instability, thereby producing much cloudiness and shower activity on the windward slopes of the hills and mountains. The Chaine Annamatious provides a sheltering effect for the eastern coastlands and reduces the force of the southwest monsoon greatly by the time it reaches this region. The northeast monsoon induces a reverse process, most of the cloudiness and precipitation experienced with the northeast air flow are observed over the eastern coastlands while relatively good weather is experienced in the other regions of the area. During the latter part of the southwest monsoon, the autumn transition and the early part of the northeast monsoon, tropical storms may enter the South China Sea region. When they move inland into South Vietnam, the mountains are influential in restricting the more damaging effects to the immediate coastal regions.

F. SPECIAL PHENOMENA: Two major and two minor phenomena affect the weather of South Vietnam. Typhoons occasionally skirt the eastern coastline or move onshore and bring widespread low cloudiness, heavy precipitation and high wind to the area. In the cooler part of the year, particularly December through April, a phenomena called "crachin" brings widespread low cloudiness, precipitation, and poor visibility to the eastern coastal regions. The southwest monsoon flowing down the eastern slopes of the Chaine Annamatique into the eastern coastal region creates hot, dry winds know as the "Winds of Laos". The fourth special phenomena is called the land and sea bree-ze regime along the coast.

Much has already been published concerning typhoons, the intensity and destructive force. Suffice it here to say that during the 14 year period from 1947 to 1960, 20 storms which were or had been typhoone moved into the South China Sea close enough to the coast of South Vietnam to influence the weather.

CRACHIN: The "Crachin" is a prolonged period of widespread fog and drizzle or light rain which primarily effects the northern part of the eastern coastal regions of South Vietnam, although on occasion it may penetrate into the northern part of the interior. It is a persistent low-level stratus phenomena accompanied by prolonged preci-pitation. The top of the stratus layer rarely extends above 8000 ft MSL and clear dry air is usually found above this. The clouds are generally 3000 to 7000 feet thick, with ceilings under 1000 feet and frequently under 500 feet. In most cases visibility is quickly and greatly reduced at the onset of the "crachin", generally below 2 miles and frequently below ½ mile. It is the results of warm, moist Pacific air being cooled at the surface as it passes over the cooler coastal waters of the Asian mainland.

WINDS OF LAOS. These winds are foehn winds originating on the high platears of Laos and the Chaine Annamatique and blow down the eastern slopes to the lowlands immediately adjacent to the water. They are hot and dry and sometimes blow rather strongly, causing extreme eva-poration along their path.

LAND & SEA BREEZES: During the entire year, land and sea breezes are common along the coastal regions. They are caused by the differential heating of land and water and generally influence an area approximate-ly 10 miles either side of the coastline. The sea breeze usually begins about 1000H, reaches a max in the early afternoon, and ceases about sunset. During late evening the land breeze develops and lasts until sunrise. The effects of land & sea breezes is most noticeable in those sections of the coastline sheltered by the land configuration from the prevailing wind flow. In such places, the local wind may even reverse the prevailing monsoonal flow at low levels. Land & sea breezes are at a maximum during the northeast monsoon and at a mini-mum during the southwest monsoon.

METEOROLOGICAL RECORDS - VUNG TAU SPECIAL ZONE

1944 - 70

MONTH	MAXIMUM MONTHLY TEMPERATURE					MINIMUM MONTHLY TEMPERATURE				
	1944-67	1967	1968	1969	1970	1944-67	1967	1968	1969	1970
JAN	92	86	85	84		62	66	69	73	
FEB	93	84	82	84		64	68	69	70	
MAR	99	85	85	91		67	72	73	75	
APR	100	87	86			67	74	79		
MAY	101	93	92			67	75	74		
JUN	97	91	91			65	75	75		
JUL	95	91	91			63	69	72		
AUG	93	89	91			65	73	73		
SEP	94	91	93			65	74	73		
OCT	92	91	90			66	72	71		
NOV	92	92	90			63	72	72		
DEC	91	91	88			59	71	71		

NOTE

THE '23 YEAR PERIOD TO 1967' REPRESENTS THE AVERAGE MONTHLY TEMPERATURE FOR 23 YEARS. THE AUTHENTICITY OF THESE FIGURES IS DOUBTFUL, AS THEIR ORIGIN POSSIBLY CAME FROM A COMBINATION OF FRENCH, JAPANESE AND VIETNAMESE RECORDS.

ANNEX A TO
WEATHER IN VIETNAM
DATED APR 69

METEOROLOGICAL RECORDS - VUNG TAU SPECIAL ZONE

1944 - 1970

MONTH	AV. MONTHLY HUMIDITY			AV. DAILY MAXIMUM TEMPERATURE					AV. DAILY MINIMUM TEMPERATURE				
	1944-68	1969	1970	1944-67	1967	1968	1969	1970	1944-67	1967	1968	1969	1970
JAN	82%	82%		82	81	81	82		71	73	73	75	
FEB	82%	82%		83	81	80	82		72	73	74	75	
MAR	81%	81%		85	82	81	84		74	76	78	79	
APR	81%			89	85	85			77	79	80		
MAY	85%			89	88	88			76	79	79		
JUN	86%			87	87	89			75	79	79		
JUL	89%			85	86	88			74	76	79		
AUG	89%			85	85	87			74	77	79		
SEP	90%			85	87	87			74	77	77		
OCT	88%			84	86	85			74	76	76		
NOV	86%			83	88	85			73	75	75		
DEC	84%			82	87	83			71	73	75		

NOTE

THE "23 YEAR PERIOD TO 1967" REPRESENTS THE AVERAGE MONTHLY TEMPERATURE FOR 23 YEARS. THE AUTHENTICITY OF THESE FIGURES IS DOUBTFUL, AS THEIR ORIGIN POSSIBLY CAME FROM A COMBINATION OF FRENCH, JAPANESE AND VIETNAMESE RECORDS.

ANNEX A TO
WEATHER IN VIETNAM
DATED APR 69

ANNEX L1 TO
COMDS DIARY
APR 69

17 Const Sqn RAE
VUNG TAU

7 Apr 69

R310-1-1(B)

CE AFV (2)

AMENDMENT TO ESTABLISHMENT 111/10/3 (TW)

Reference: AFV Engr A1-17/R310-2-128 dated 1 Apr 69.

1. a. The following charges are recommended to Establishment 111/10/3(TW) (proposed).

b. These comments are applicable to all Construction Squadrons.

2. PERSONNEL

Ser	Est (Proposed)	Recommended Change	Remarks
1	Staff Sgt (SQMS)	to RQMS WO2	a. 2IC to QM b. relations with other WOs in RAE, RAAOC c. responsibility involved.
2	Not included	FE Sgt to Const Tps	a. on current est b. FE work in Tp (not covered in future Clerk of Works training). c. assist Tp Comd with administration d. Flexibility in employment of Tp and Sqn
3	Not included	Asst Sup Mech (Sgt) Resources Tp	a. RAE Wksp b. RAE repair man-power inadequately organised in current org
4	FE Sgt Resources Tp	Deletion	limited use
5	NOT specified	Cpl FEE (Two) in Resources Tp	a. RAE repair b. refer 4 above
6	NOT Specified	Additional Storeman for Resources Tp	as above
7	NOT Specified	Additional Clerk Tech for Resources Tp	as above

...../2.

3. Vehicles

Ser	Est (Proposed)	Recommended Change	Remarks
1	NOT included	Add Lubricating & Servicing Units power operating, truck mounted 3/4 ton GS	RAE Wksp
2	NOT included	Add Lubricating & Servicing unit power operated trailer mounted ½ ton	RAE Wksp
3	NOT included	Add Trucks Workshop (Blacksmith etc) RAE, truck mounted 5 ton with trailer	RAE Wksp
4	NOT included	Add Trucks GS 5 ton	RAE Wksp binning truck Binning as part of TWET
5	Crane shovel basin unit, truck mounted ½ cy with att (Code 6229)	Add or in lieu Crane shovel basic unit crawler mounted 3/4 cy with att (Code 6513)	a. More reliable machine b. Better cross country performance c. Larger capacity. d. more useful e. Note P&H more useful as pile driver in some cases
6	NOT included	Add Roller towed open faced 10,000 lb vibrating (10453/00)	Road/airfield construction using blast rock etc
7	NOT included	Add Tractor full tracked low speed size 0 with loader scoop & back hoe (6531/A16/P11)	Particularly useful machine in vertical construction etc
8	NOT included	Add Tractor full tracked low speed size 0 W/angle dozer (6531)	as per 7
9	NOT included	Suitable machine to tow rollers suggest machine such as LW16R	a. not satisfactory to plan on using TD1' grader etc b. say 2 prime movers per 3 rollers

...../3.

10	Tractor wheeled industrial size 8 with MPB & towing hook	Increase total from 3 to 4	a. Vital aspect in flow of plant work b. 3 insufficient
11	NOT included	Truck mounted Water distributor (minimum 1000 gall) (minimum 2 vehicles)	a. Essential aspect of road & Airfield construction b. Continual requirement.
12	Auger earth Truck Mounted 5 ton GS	Increase from 1 to 2	a. Heavy demand majority of time b. 1 machine inadequate
13	NOT included	Truck mounted fuel tanker with pump etc (minimum 500 gall capacity) 1 off	a. For C veh refuelling b. Always requirement to deliver fuel to machines in the field c. Drum method unsatisfactory
14	NOT included	Trailer mounted mobile plant office 1 off	a. Efficient operation of large plant capacity held by Const Sqn b. Planning, supervision administration etc

3. FORCE POOL

The following items are assumed to be readily available from Force Pool. (an inherently difficult arrangement).

a. Roller road 3 wheeled 29,000 lb (10433/01 - Mac DONALD type)

b. Sprayer Bituminous Truck Mounted 1000 gall (10404/00)

c. Sweeper rotary towed 7 ft brush (10355/00)

d. Grader - (smaller model than 12 ft CAT 12)

e. Spreader aggregate truck mounted (10439/00).

(E.J. WERTHEIMER)
Maj
OC

For Info

HQ 1 ALSG
Det 17 Const Sqn ND
Plant Tp
QM
Spare (4)

ANNEX L2 TO
17 Const Sqn RAE COMDS DIARY
APR 69

R310/1/1

17 Const Sqn RAE
VUNG TAU

List C

ORGANISATION - OFFICER CHANGES

Reference: A. R310-1-1 17 Const Sqn Gp Organisation for Works as at 2 Apr 69.

1. March in - March out

a. Lt McCANN is due for RTA on 30 Apr 69.

b. Capt SARAH is scheduled to arrive 17 Const Sqn on 16 Apr 69.

2. Officer Appointments as at 27 Apr 69

OC — Maj WERTHEIMER
2IC — Capt SLATER
QM — Lt FROST
Admin Offr — 2lt MINNIKIN

OC Wksps Capt MEIKLEJOHN

9 Tp	Plant Tp VT	Resources Tp	Wks Offr VT
Lt COWPER	Capt BARKER	Capt TAYLOR	Capt CREWS

OC Det ND — Capt GRAHAM
Wks Offr ND — Capt SARAH

10 Tp	Plant Tp ND
Lt SNELLING	2lt WILKINSON

...../3. Handover

3. HANDOVER TIMETABLE

Apr	Day	Detail
16	Wed	CAPT SARAH arrives
17	Thu	CAPT SARAH move to NUI DAT Thu afternoon
18	Fri	CAPT BARKER hands over as Wks Offr NUI DAT to CAPT SARAH until 1800 hrs Sun 20 Apr 69
19	Sat	
20	Sun	
21	Mon	CAPT BARKER moves to VUNG TAU takes over Plant Tp VUNG TAU from 2Lt WILKINSON.
22	Tue	
23	Wed	2Lt WILKINSON departs VUNG TAU. Lt COWPER hands over Mech Tp to 2Lt WILKINSON to 1800 hrs Thu 24 Apr 69
24	Thu	
25	Fri	Lt COWPER moves to VUNG TAU. Lt McCANN hands over 9 Tp to Lt COWPER.
26	Sat	
27	Sun	Lt McCANN RTA procedure

4. MOVEMENT.

Capt SLATER is to co-ordinate movement of officers as per para 3 above.

5. SUB ACCOUNTS

a. The following sub accounts are to be handed over.

(1) Plant Tp VUNG TAU

(2) Mech Tp NUI DAT

(3) 9 Const Tp VUNG TAU

b. QM 17 Const Sqn is to co-ordinate handover/takeover stocktakes between sub account holders. (Instructions to be issued separately).

c. Results of stocktakes to OC 17 Const Sqn by 28 Apr 69

d. Capt SLATER is to publish in RO's the complete list of sub account holders as at 27 Apr 69.

6. OPERATION OF PLANT TP/MECH TP

a. Change of name. Mech Tp NUI DAT is to become Plant Tp NUI DAT from and including 25 Apr 69.

b. RELATIONSHIP PLANT TP VUNG TAU and PLANT TP NUI DAT

Capt BARKER Plant Tp Comd VUNG TAU is to co-ordinate all Plant Tp personnel & plant of 17 Const Sqn. Movement of personnel & plant between VUNG TAU and NUI DAT is subject to the approval of OC 17 Const Sqn.

...../3.

c. SUB ACCOUNTS

The current system of Plant Tp and Mech Tp sub accounts is to be maintained except Mech Tp sub account will become Plant Tp NUI DAT sub account as from 25 Apr 69.

(E.J. WERTHEIMER)
Maj
OC

ANNEX L3 TO
COMDS DIARY
APR 69

R901-1-1

Works Office
17 Const Sqn

15 Apr 69

List C

ALSG WORKS PRIORITIES

Reference: A. Discussion WERTHEIMER/CREWS/GOSSCHALK on 12 Apr 69.

1. The following are the current priorities for Works within ALSG:

a. Vertical Construction

(1) Completion of local works, Offr quarters and OR mess.

(2) R&C Centre culvert

(3) Absorption trenches, Hospital OR lines and 17 Const Sqn lines.

(4) Radio station

(5) Complete HQ Coy kitchen

(6) Complete Staff (Hospital) Kitchen

(7) Toilet and plumbing for ALSG Fire Station.

(8) MCE Kitchen

(9) Culvert headwalls at Post Office Culvert.

(10) 2 Gal water heaters at Hospital

(11) Perspex windows at 102 Fd Wksp

(12) 8 Point Shower block, absorption trench and grease trap at 5 Coy (WI to be issued).

(13) 4 sullage pits

(a) 5 Coy kitchen

(b) 2 AOD kitchen

(c) HQ Coy kitchen

(d) 110 Sigs Sqn kitchen

(14) 3 Latrines

(a) 5 Coy

(b) 2 AOD

(c) Plant Tp

b. Plant Tasks

(1) Cleaning up of completed roadworks.

(2) Quarrying and Crushing Operations.

...../2.

(3) Assistance with R&C Centre culvert.

(4) 110 Sigs Hill culvert, Drainage in area of Sgts Mess and HQ Bldg.

(5) Plant assistance to Hospital Lines absorption trench and 17 Const Sqn absorption trench for showers.

(6) Completion of access road to Chaplains' office.

(7) Completion of Ammunition Bay supports.

(8) Cleaning out of Water Points.

(9) Hardstand at 102 Fd Wksp Kitchen area (Bldg 8)

(10) Remove soft spot at PX area and clean up of fire station aggregate dumping site.

(11) Hardstanding around Hospital staff kitchen.

(12) 2 AOD Drain along fence

(13) Drainage in area of Hospital canteen.

(14) Building site preparation at HQ Coy.

(15) HQ Coy hardstand

(16) Rocking of the area near building 635 and 637 1 Aust Fd Hosp.

(17) Road sealing programme.

c. Notes Relating to Priorities.

(1) P26 is to be raised by this Squadron for priority 1.a (1).

(2) Priority 1.a (2) is to be completed by 1700 hrs 16 Apr 69.

(3) Carrying out of works in priority depends on availability of stores.

(4) P27 are expected soon for Priorities 1.a (12), (13) and (14).

(5) 9 Tp hold WI for priorities 1.b (3) and (5).

(6) Plant priorities may be varied if tippers or essential equipment is available and not fully employed.

(7) Drainage is the essential feature of Priority 1.b (6). The surveyor will be made available to check levels.

(8) There are no current WI's for priorities 1.b (11), (13) and (16). These will be raised on receipt of P27.

(9) Comd 1 ALSG has approved this priority list.

...../3.

2. It is hoped that a reassessment of priorities may be made fortnightly after discussions with 198 Wks Sect.

(W. CREWS)
Capt
Const Offr

Copy to:

198 Wks Sect

ANNEX L 4 TO
COMDS DIARY
APR 69

R901-1-1

17 Const Sqn RAE
VUNG TAU

28 Apr 69

List C

ALSG WORKS PRIORITIES

References: A. 17 Const Sqn R901-1-1 dated 15 Apr 69

B. Discussion WERTHEIMER/CREWS/GOSSCHALK on 26 Apr 69.

1. Reference A has been updated. The following are now the priorities for Works within ALSG:

a. Vertical Construction.

(1) Officers' showers and septic block 1 Aust Fd Hosp.

(2) VUNG TAU Radio Station.

(3) HQ Coy Kitchen

(4) MCE Kitchen.

(5) 2 Gal Water Heaters - Hospital.

(6) Perspex windows - 102 Fd Wksp.

(7) 8 Pt shower Block - 5 Coy.

(8) 4 sullage Pits as per W1.

(9) 3 Latrines.

(a) 5 Coy

(b) 2 AOD

(c) Plant Tp.

(10) Service Station and Ramp - 17 Const Sqn

(11) Additions to Provost Unit Showers - (W1 to be issued).

(12) Roof for 600 cu ft Refrig - 1 Aust Fd Hosp (W1 to be issued).

(13) Drainage HQ 110 Sig Sqn (W1 to be issued).

(14) Shelves and cupboards - RAP 1 AUST Fd Hosp - (W1 to be issued)

(15) Modifications to Physiotherapy clinic - 1 Aust Fd Hosp (W1 to be issued).

(16) Shelter for autoclave - 1 Aust Fd Hosp (W1 to be issued).

b. Plant Tasks

(1) Cleaning up of completed roadworks.

(2) Quarrying and Crushing Operations.

...../2.

(3) Drainage at 2AOD steam cleaner (W1 to be issued).

(4) 110 Sigs Sqn Drainage in area of Sgts Mess and HQ Bldg.

(5) Completion of ammunition Bay area.

(6) Cleaning out of Water Points.

(7) Complete hardstand at 102 Fd Wksp Kitchen (Bldg 8)

(8) Site preparation for swill Bin Room - ALSG Offr Mess.

(9) Drainage works for bldg 53 102 Fd Wksps (W1 to be issued).

(10) Hardstand around Hospital Staff kitchen (W1 to be issued)

(11) Complete 2AOD Hardstand.

(12) 2 AOD Fence drainage - additional plan to be issued if required.

(13) Plant assistance for drainage in area of Hosp OR Canteen (W1 to be issued).

(14) Building site preparation at HQ Coy.

(15) HQ Coy hardstand.

(16) Rocking of the area near building 635 and 637 1 Aust Fd Hosp.

(17) Road sealing programme.

2. Works Offr is to arrange job inspection with Tp Comd 9 Tp and Tp Comd Plant Tp to consider the work required to complete each of these tasks.

(E.J. WERTHEIMER)
Maj
OC

Copy to:

198 Wks Sect

ANNEX O I TO
COMDS DIARY
APR 69

R723-1-1

17 Const Sqn RAE
VUNG TAU

5 Apr 69

Chief Engr (3)

17 CONST SQN RAE
PERIODICAL TECHNICAL REPORT
FOR PERIOD 1 MAR - 31 MAR 69

1. Herewith three copies of 17 Const Sqn Periodical Technical Report for the reporting period.

(E.J. WERTHEIMER)
Maj
OC

Enclosure:

1. Periodical Technical Report (3 copies).

R723-1-1

17 Const Sqn RAE
VUNG TAU

5 Apr 69

D Engrs

17 CONST SQN RAE
PERIODICAL TECHNICAL REPORT
FOR PERIOD 1 MAR - 31 MAR 69

1. 17 Const Sqn Periodical Technical Report is compiled in Annex form as follows:-

a. Annex A - Operations, Activities and Works.

b. Annex B - Personnel.

c. Annex C - Equipment.

d. Annex D - Training.

e. Annex E - Organisation for Works.

(E J WERTHEIMER)
Maj
OC

For Information (Less Annex E)
HQ 1 ATF
HQ 1 ALSG
198 Wks Sect
Det 198 Wks Sect
CE AFV (2)

Internal
17 Const Sqn Wksps
9 Tp
10 Tp
Res Tp
Plant Tp
Mech Tp
Tpt Tp
OC
2IC
OC Res 17 Const Sqn
Wks Offr VT
Wks Offr ND
File
Spare (4)

Annex A to 17 Const Sqn
RAE Periodical Monthly Report as at 31 Mar 09

OPERATIONS, ACTIVITIES & WORKS

1. The list of Appendices to this Annex is:

Appendix 1 - Operations

Appendix 2 - Works - 1 ALSG (incl 2 attachments)

Appendix 3 - Electrical Works - 1 ALSG

Appendix 4 - Works - 1 ATF

Appendix 5 - Quarry Report - 1 ATF

Appendix 6 - Electrical Works - 1 ATF

Appendix 7 - Well Boring Report - 1 ATF

Appendix 1 to Annex A to
17 Const Sqn RAE Periodical
Technical Report as at 31 Mar
69

OPERATIONS , ACTIVITIES & WORKS

Det 17 CONST SQN RAE - 1 ATF

OPERATIONS

1. PERIMETER DEFENCE

The number of strong points manned in the unit area has been reduced after staff direction. Members are now standing picquet one day in every five.

2. TAOR PATROLS

The detachment continues to provide an average of four members per week for TAOR patrols with RA Inf.

Appendix 2 to Annex A
to 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

WORKS - 1 ALSG

Plant Tasks

1. a. Road Sealing Programme

(1) The section of road from 110 Sigs Sqn access road to 8 Pet Pl was sealed with a double bituminous seal coat. The total length of this section was 2000 ft.

(2) The road from Anzac Chapel to 55 Engr Wksp and Pk Sqn has been rebuilt and prepared for sealing. A fill of from 6" to 3' was required over most of this road.

b. Road Reconstruction - MSR

(1) The rebuilding of the BARIA-HOA LONG Road commenced on 31 Mar 69.

(2) A Report on the initial reconnaissance of this operation is attached as attachment 1 to this appendix.

c. Hardstandings

(1) A hardstand was completed at Delong Pier in time for unloading of the 'Jeparit'.

(2) Hardstands in 2 AOD Stores and accommodation areas were commenced but due to higher priority tasks are only 50 % complete.

d. Other Plant Tasks

(1) The Ammunition Bay walls have been filled with sand. Due to lack of excavation equipment, no further holes for the remaining supports have been dug.

(2) Cleaning out of the two main ALSG Water Points is now 100% complete. A seperate report on operation of the water point is attached as Attachment 2 to this Annex.

(3) Excavation of sumps and construction of culverts as part of the road drainage plan is in progress. 3 culverts were laid during the month making a total of 8 laid under the Road Sealing Programme.

(4) Site preparation for Amenities Store building is now 70% complete.

(5) Maintenance work on the Quarry haulroad is carried out as plant is available.

(6) The absorption trench for the septic tank serving the West SAL at 1 Aust Fd Hosp was extended by 60 ft to provide adequate absorption once before the Wet season.

...../2.

Vertical Construction

3. Tasks completed during March

Priority	P27	Task
19	W526	Construction of Stores Skillion 17 Const Sqn Wksp Ord Cell - Bldg 463
Not Prog	Engr Wks Order 3	Ducting in BUIS BOQ
Part Pri 2	W 445	4 of 5 Deep hole latrines
9	W446	Contract assistance for 102 Fd Wksp Kitchen Bldg 8.
Not Prog	W486	Temporary gas supply to bldg 1128 at AFC.
Not Prog	W496	Additional doorways in Orderly Bldg at 1 Aust Fd Hosp.

4. Tasks in Progress at End of month.

Priority	P27	Task	% Complete
4	W250	Contract Assistance - Plumbing 1 Aust Fd Hosp Staff Kitchen Bldg 628	
1968	Various	Plumbing in 1 Aust Fd Hosp - installation of 2 Gal Water Heaters	90%
5	W436	Contract assistance - Plumbing HQ Coy Kitchen Bldg 125	70%
1968	770	Temporary Gas to 17 Const Sqn Kitchen	90%
6	W489	Vung Tau Radio Station	60%
Not Prog	Engr Wks Order 1/69	Painting Work - Saigon	90%
Not Prog	Engr Wks Order 2/69	Generator shed Modifications and Kingstrand Hut re erection - additional maintenance tasks	95%
Not Prog	Engr Wks Order 4/69	Construction of Sandbag filling machine - Saigon	80%
12	W501	Plumbing for MCE Kitchen Bldg 905	30%
17	W526	Construction of Stores Skillion Bldg 481 for Res Tp, 17 Const Sqn	70%

...../3.

Quarrying

5. a. No of Blasts. Nil. Due to slight damage to nearby buildings, blasting in the Aust Quarry VUNG TAU has been discontinued indefinitely.

b. Description of Rock. Rock types in this quarry vary from a granite to a weathered, fine grain igneous rock of undetermined type. Instrusions of igneous rock lay within a weathered laterite.

c. Difficulties. Igneous rock from Cap St JACQUES has caused considerable wear an D8 Ripper teeth. After 90 minutes ripping, rebuilding of the teeth becomes necessary Rock [illegible]ined from the nearby US quarry has caused [illegible] on the cones and jaws of the Hadfield Crushers. Most aggregate used in ALSG is now graded aggregate procured by the Post Engineer which is screened by the Hadfield units.

d. Miscellaneous Information

(1) Rock can still be won from the quarry to meet the roadworks and hardstand requirements.

(2) An alternative quarry site has been arranged through US Engrs.

Rock/Sand Production

6. a. Rock from US Quarry Cap St JACQUES

(1) 3" (-) - 218 cu yds

(2) Blast Rock - Nil

b. Rock from Aust Quarry Cap St JACQUES
- 10,500 cu yds

c. Hadfield crusher/production figures

	1" - 1½"	½" - ¾"	Fines
Stock B/F	118	324	256
Production	108	205	191
Issues	213	414	187
Balance	13	115	260

d. Crushing machine Hours - 80 hrs
(Cone crusher only)

e. Contract Support

(1) aggregate - 410 cu yds

(2) Sand - 245 cu yds

f. Waste Sand

(1) Quantity Removed - 4735 cu yds

...../ 4.

Water Supply

7. Quantity of water issued for month:

a. 1 ALSG Water Point - 1,354,000 gal

b. PBC Water Point

(1) Potable Water - 455,000 gal

(2) Non Potable Water - 231,000 gal

c. Issued to 1 Aust Fd Hosp - 313,000 gal

Maintenance

8. Urgent minor maintenance (all trades)

a. No of calls - 102

b. Man hours - 110 (approx)

9. UMM (electrical only)

a. No of calls - Day 51
Night 23

b. Man hours - Day 49
Night 16

Electrical

10. Refer to appendix 3 for Detailed Report.

11. Summary

a. Total building wired for month 11

b. Building connected to US Supply - Nil

c. Building in Progress - 4

Attachment 1 to
Appendix 2 to Annex A
to 17 Const Sqn RAE
Periodical Technical
Report as at 31 Mar 69

REPORT ON ROUTE RECONNAISSANCE - 23 MAR 69

Reference: A. AFV Sig Ops 04462 dated 23 Mar 69.

GENERAL

1. 17 Const Sqn is to carry out repairs to MSR between BARIA and HOA LONG.

AIM

2. The aim of the recce was to examine the problems involved with this task.

3. The aim of this report is to record and consider the observations made.

COMPOSITION OF PARTY

4. The recce party consisted of:-

Maj	WERTHEIMER	OC 17 Const Sqn
Capt	SLATER	2IC
Capt	FLANDERS	OC 17 Const Sqn Wksps
Capt	CREWS	Const Offr
Capt	BARKER	Const Offr
Lt	FROST	QM (Incoming)
Lt	HARROP	QM (Outgoing)
2LT	WILKINSON	Plant Tp Comd
WO1	RAVENSCROFT	SSM
WO1	DICKENSON	ASM
WO1	MATHEWS	Plant WO
Sgt	McCALLUM	FE
Sgt	KUSLAN	FE

TIMINGS

5. Tinings for recce : were:-

a. 231115 - depart VUNG TAU

b. 231200 - arrive BARIA - inspect road section

c. 231230 - Discussion on site HOA LONG checkpoint

d. 231240 - move to NUI DAT

e. 231310 - depart NUI DAT - inspect road widths on return to BARIA. Old 36 Engr Bn area inspected.

...../2.

f. 231415 - arrive VUNG TAU

ASSESSMENT OF TASK

6. Existing Condition

a. Surface. The present surface varies from a broken bitumen surface at the BARIA end to a rutted sandy gravel at the HOA LONG end.

b. Width. Width varied from 20' to 28' from edge to edge of the carriageway.

c. Drainage. Only 3 culverts exist which drain water from one paddy to another under the road. Culvert depth is 12" to the overt from the crown of the road. Shallow monsoon drains exist down both sides of the road for 75% of the length.

d. Alignment. The variation in grade is not obvious at any point in the length. There is only slight variation in horizontal alignment.

7. Desirable Product

a. Suggested specification is for a 24 ft sealed carriageway with existing sidedrains. A 3 ft shoulder is desirable.

8. Outline of Effort Involved

a. For 2000 metres from 1000 m out of BARIA, tyning and compaction, with additional fill material, is required.

b. For the remaining section to HOA LONG, tyning, rebuilding and reforming will be necessary.

c. Where necessary, widening to 30 ft is required.

d. Culverts should remain and ext sion undertaken

e. A minimum of four weeks will be required.

DESIGN

9. There is no requirement for major redesign of the road section. Furthermore, the reclaiming of additional land to improve alignment is undesirable.

10. A typical cross section should be the only design necessary.

DRAINAGE

11. Additional culverts would serve little use.

12. Where non existent, monsoon drains parallel to the centreline should be constructed.

13. There is insufficient fall to achieve adequate runoff from side drains.

...../3.

SECURITY

14. A security party is essential during working hours. 1 ATF to be consulted.

15. Road Clearance. 1 Fd Sqn are to be approached on the need for mine clearance prior to daily work.

16. Equipment. All equipment is to be returned to NUI DAT before 1800 hrs daily -perhaps roller to Police Compound.

17. Personal Weapons. Carried by all personnel including plant operators.

18. Vehicle Movement. A minimum of 2 men per vehicle.

MATERIALS

19. Quarry Rock/Laterite. Approximately 10,000 cu yds of fill material, suitable for sub-base is required. Most suitable borrow pit/quarry would be NUI DAT. If insufficient fines available, NUI DAT laterite is to be added. A detailed pavement design is not considered necessary.

20. Prime and Bitumen. MC 70 and MC 800 should be procured from US sources.

21. Aggregate. A JOR should be raised and processed through the US resources system for $\frac{3}{4}$" and $\frac{3}{8}$" aggregate. 400 yds of $\frac{3}{4}$" and 300 yds of $\frac{3}{8}$" would be required. If the JOR application is unsuccessful RAE resources could provide these quantities at the expense of ATF and ALSG road sealing programmes.

MANPOWER

22. The work force should consist of the following:-

a. Plant Sgt - (Sgt JOLLY recommended)

b. Plant Opl - (Lopl DUNKLEY)

c. Grader Op

d. TD 15B Op

e. 966B Op (at NUI DAT).

f. Low Loader Driver and shotgun.

g. Water Truck Driver and shotgun.

h. ALSG Sealing Crew to be called forward as required.

j. Tipper drivers as available - minimum of 8 for effective operation.

EQUIPMENT

23. Required equipment is:-

a. Grader - 1

b. TD 15B - 1

c. 966B - 1 and 1 on call

...../4.

d. 25 ton low bed tlr - 1

e. Water truck - 1

f. 10,000 lb vibrating roller - 1 (Sheepsfoot and Smooth) (TD 15).

g. Grid roller - 1

h. Sealing equipment when required.

OP CONTROL

24. Project is under control of Tp Comd Mech Tp.

25. Technical control by Works Offr VUNG TAU.

26. Tp Comd Mech Tp and Works Offr VUNG TAU are responsible for successful completion of project to OC 17 Const Sqn.

27. Security element allocated to be under control of 1 ATF.

ADMINISTRATION

28. The roadworks detachment, from VUNG TAU, to be under admin comd of Det 17 Const Sqn for rations and quarters.

29. Rations. Lunch delivered daily to works site from NUI DAT is recommended solution.

30. Water. A suitable water point is being investigated. BARIA sources are brackish but suitable. Alternatives in NUI DAT area are being considered.

31. Medical. Safety vehicle required at works site. Medical kit to be carried. At least one member of party to be a capable medical assistant.

COMMUNICATIONS

32. Desirable that direct link should be established between Road Party and Works Office VUNG TAU and NUI DAT. To be further investigated.

OPERATION ORDER

33. Const Offr VUNG TAU to prepare Op O in conjunction with OC 17 Const Sqn and Tp Comd Mech Tp.

(W J CREWS)
Capt
Const Offr

Attachment 2 to
Appendix 2 to Annex A
to 17 Const Sqn RAE
Periodical Technical
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REPORT BY CAPT P.B. TAYLOR

TP COMD RESOURCES TP, 17 CONST SQN

THE OPERATION OF THE MAIN 1 ALSG WATER POINT

References: A. E-in-C's Technical Instruction No 56
Water Supply etc.

B. Military Engineering Vol VI Water Supply etc 1956.

General

1. The US supplied, ERDLATER water purification system commenced operation on 23 Jan 69, replacing the PATERSON Water Purification Equipment Type 6B.

2. An average production rate for planning purpose is approximately 4500 gallons per hour.

Operators

3. The equipment was supplied from US sources by PACIFIC ARCHITECTS and ENGINEERS (PA and E) who were also responsible for operation and maintenance.

4. The operators were local Vietnamese supervised by a Korean whose supervision included several water points supplying the US Forces.

5. Operation by PA and E was unsatisfactory and on several occasions the 1 Aust Fd Hosp and main supply tanks ran dry.

6. During the Tet holidays when the local operators were absent, Field Engineers from Resources Troop operated the plant. There were no further occasions on which the tanks ran dry.

7. Arrangements were made through the Garrison Engineer 1 ALSG enabling members of Resources Troop to continue operating the water point. Two shifts of two men per day are necessary to supply the water required.

Maintenance

8. Mechanical. Small repairs, not requiring spare parts, are carried out by Resources Troop.

9. Major maintenance or replacement of assemblies continues to be done by PA and E by direct liason. This system is quite satisfactory.

10. Chemicals. All chemicals used in clarification and purification are provided directly from PA and E without any requirement for indents.

...../Storage

Storage

11. A sketch of the layout of the water point is attached (Annex A).

12. Some difficulty was experienced when only two 1000 gallon tanks were available at the ERDLATER shed. The main delivery pumps were of greater capacity than the pumps from the filters to the 1000 gallon tanks. Under this arrangement, it was necessary to keep the levels in the tanks under close scrutiny to prevent the electric motors from burning out if the tanks ran dry.

13. Installation of a 10,000 gallon intermediate storage tank to replace the 1000 gallon tanks has relieved the problem.

Drainage

14. The ERDLATER shed was constructed with a concrete trench centrally-located for the length of the building and tank-stand slab. The trench led to a rock-filled drainage pit.

15. After about six weeks of operation, the drainage pit became clogged with used filter powder and fine sediment.

16. Baffle plates were fitted along the trench to provide regions of relatively still water where the sediment could settle and be shovelled out after the water had drained away.

17. The water was still not draining efficiently and so a self priming siphon was installed. The siphon drained the water into a bottomless 44 gallon drum set into the sand near the main pond.

18. The method described in para 17 worked well until the drum filled with wind driven sand.

19. The siphon now drains straight back into the main pond, the majority of the sediment being retained in the baffled areas.

Pondage

20. The No 1 pond (Annex A) was the main source of water when the ERDLATER began operating. As the dry season continued and the water level dropped, plant growth became profuse. This necessitated the dragging of the pond.

21. Pipes were laid to Pond No 2 and valves connected (Annex B). Water was drawn from this pond but after two days the source was dry.

22. Pumping from No 1 pond was resumed while No 2 pond was enlarged using a tracked excavator 22 RB rigged as a drag-line. Side-casting of the bucket proved to be more effective than front to rear casting because of the greater operating distance.

23. The pond was enlarged to about 90 ft square with about four feet of water.

Flocculation

24. The water in No 2 pond was very dirty after excavation. Ferric chloride is an efficient flocculant but requires the water to be alkaline (PH8-10) before it is effective.

25. Using data from reference B, it was calculated that approximately 90 lbs of ferric chloride would be required to give a pond concentration of 2 grains per gallon. The chemicals were readily available from PA and E.

26. Because of the suspended impurities, it was difficult to determine the PH of the raw water. Samples flocculated in a bucket gave a PH reading of 4-5, indicating that an alkali would have to be added to the pond with the ferric chloride.

27. Calcium hydroxide, obtained through 5 Coy RAASC was used with the ferric chloride. Approximately 50 lbs of each chemical were distributed throughout the pond. Distribution was effected by pumping the dissolved or partially-dissolved chemicals from a 44 gallon drum in an assault boat. This method was not very efficient.

28. Very little settlement was apparent after three days and a further 35 lbs of ferric chloride was distributed in crystal form from the assault boat, The fine crystals dissolved on contact with the water.

29. Flocculation was still slow due probably to the fact that the calcium hydroxide is relatively insoluble. Tests showed that the PH was still less than 7.

30. Sodium carb nate was obtained from PA and E. When a a small amount was added to a bucket of water from the pond, a floc was formed immediately. 100 lbs of sodium carbinate was distributed from the tanks of the non-potable water truck, using the No 4 Pump Set fitted with a nozzle. This method was far more efficient than the method described in para 27.

31. A good floc was formed and the pond was reasonably clear after one day.

32. This initial flocculation and sedimentation in the pond enables the filter units to operate for much longer periods between backwashes, which in turn affords a greater production of potable water.

Ground Water

33. The theory is that for every foot that the water table is above sea level, the fresh water extends forty feet below sea-level. In order to provide some safety factor, the datum used was high tide level.

34. Present levels indicate that there should be at least forty feet of usable water. When water is pumped from one pond over a long period, the level drops until an equilibrium is reached. This equilibrium is such that the pond recovers over night to a fairly constant level. As the dry season progresses, this level gradually drops.

35. The present recovery level is to about one foot below the datum but there has been no salt water detected.

36. Ponds Nos 1 and 2 are in working condition now and a programme has been started to use each pond for three days, alternating from pond to pond. Such a plan should allow satisfactory recovery of pond levels and also ensure that no salt water enters the ponds.

37. It was found that when the ponds were allowed to recover with no draw-off, the floc matter came to the surface but caused no problem.

...../38.

Conclusion

38. Operation of the ERDLATER system by personnel over whom the Sqn has direct control is far more efficient than operation by civil contract.

39. Pumping from below high tide level introduced no salt water. Mean sea level is probably a more reasonable datum to use. Use of the high tide as datum provides a safety margin.

40. The use of chemicals for preliminary sedimentation in the pond is advantageous. Ferric chloride is a good flocculant but requires the raw water to be alkaline (pH 8-10). An alkali salt used to raise the pH should be a sodium rather than a calcium salt. Sodium salts will produce "soft" water whereas calcium salts give "hard" water.

41. Alternate pumping from ponds no 1 and 2 should ensure that only fresh water enters the ponds.

NOTES ON MSR RECCE - 25 MAR 69

1. Attending.
   Maj WERTHEIMER
   CAPT GRAHAM
   CAPT CREWS
   CAPT BARKER

2. Advisor
   Maj VOIGT

3. Plant
   Minimum movement of plant from VUNG TAU, particularly dozers.

4. Water Supply
   2 possibilities:
   a. BARIA river to WEST of stadium - most accessible but necessary to drive through populated areas if Paddy Fields are not traversed.
   b. NORTH end of NUI DAT area - supply ample but haul longer.

5. Material
   a. NUI DAT quarry to stockpile 15,000 yards of blast rock from recently opened section.
   b. Laterite to be won from existing laterite pit and mixed as required.

6. By Pass Roads
   a. Public Relations important
   b. Excessive material required.
   c. Convenience only - work can be done on half road only.

7. Traffic Control
   a. 1 Aust MP at each end.
   b. Signs to be in Aust and Vietnamese.

8. Supervision
   a. Sgt JOLLY to be Plant Sgt for job.
   b. Lcpl DUNKLEY to be on site at all times.
   c. WO1 MATTHEWS to visit site frequently for technical advice if required.
   d. Mech Tp Comd and Works Offr to visit site regularly by road/air, road.

9. Movement of Pers
   Suggestion that to assist Mech Tp, Sgt McCALLUM to take full control of quarry.

10. Communications
   a. Radio link open between job site and NUI DAT at all times. Use of phone relay for contact with VUNG TAU.
   b. Sufficient sets now held at NUI DAT. Dipole aerials required at NUI DAT and VUNG TAU.

11. Civil Affairs
   a. Maj VOIGT to be Liaison Offr for all contact with BARIA authorities. Will provide road history.

...../2.

b. Lt Col GRATION should be kept informed of progress.

12. Daily Clearance a. Mini party from 1 Fd Sqn.

Annex A to Attachment 1
to Appendix 2 to Annex A
17 Const Sqn RAE
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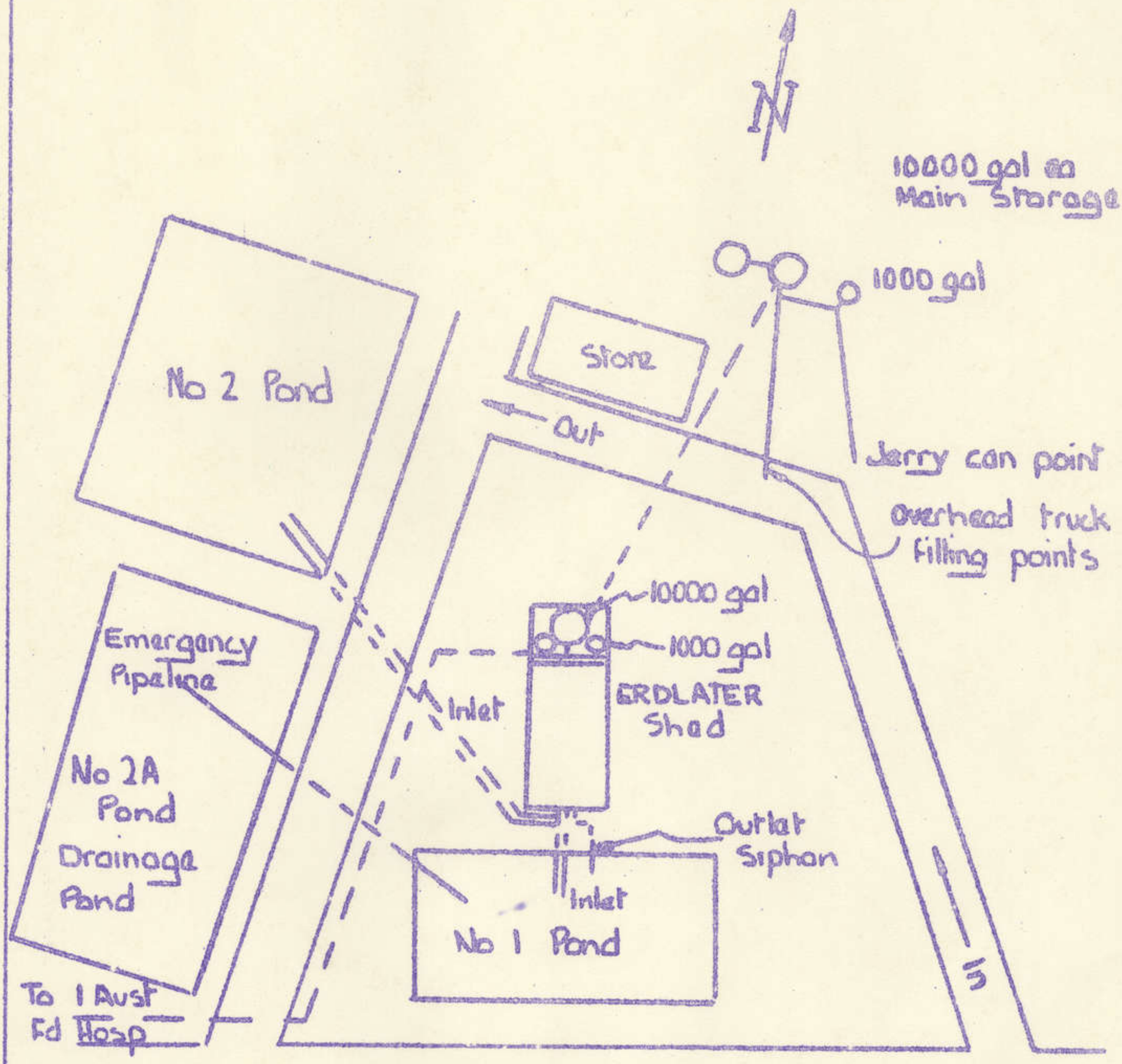
WATER POINT LAYOUT



2 AOD

Not to Scale

Annex B to Attachment 2.
to Appendix 2 to Annex A
17 Const Sqn RAE
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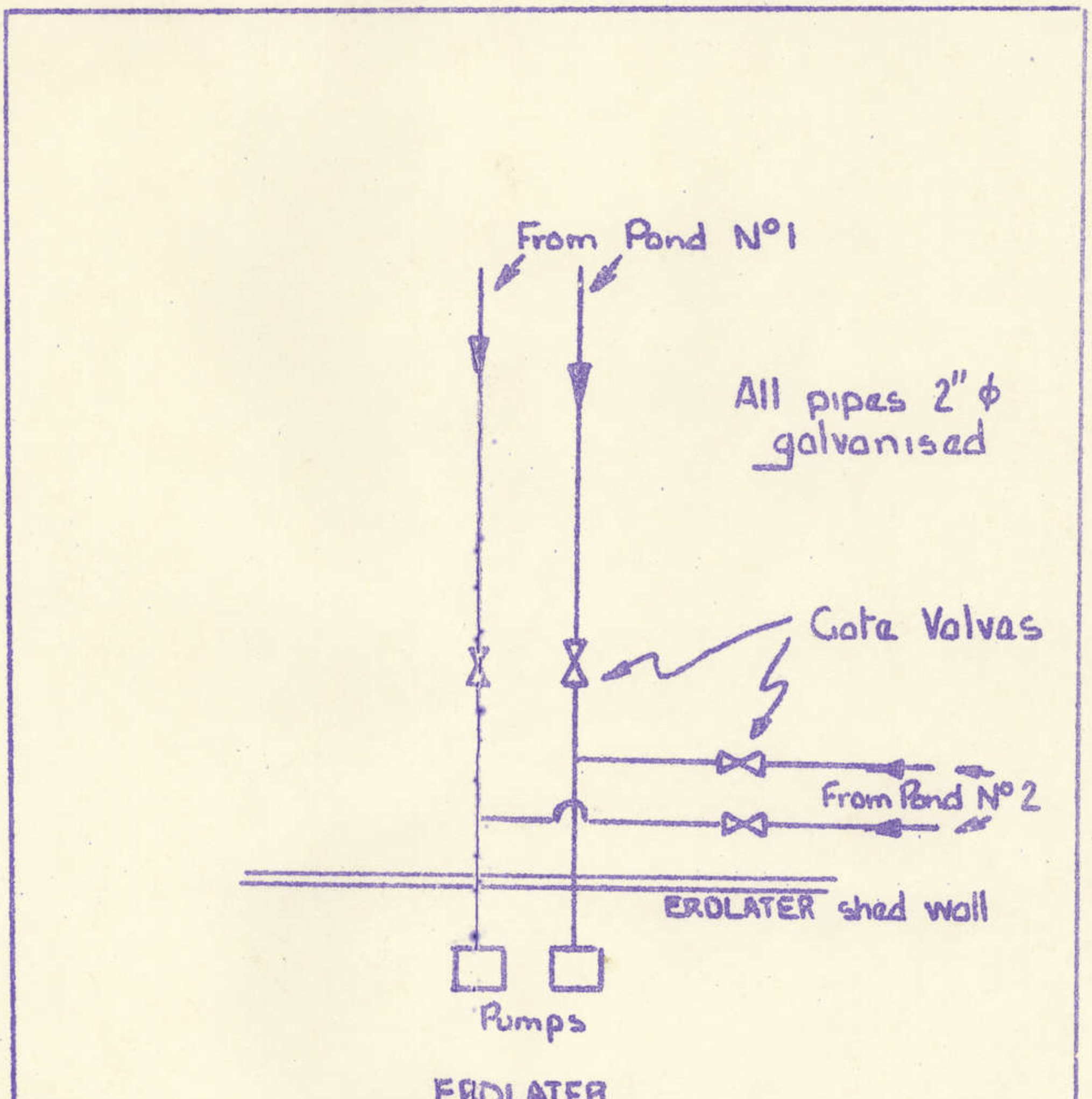
INTAKE PIPES



ERDLATER

Schematic Only

Appendix 3 to Annex A
to 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

ELECTRICAL PROJECT
PROGRESS REPORT

Serial	Pri	Task	Man days Required	Total Man days Expended	% Previously Completed	% Total Completed	Building Connected to Power (Include bldg No's	Remarks
1	2	5 Coy RAASC	25	24	30	80	This Includes Emergency	Connection
2	7	HQ Coy	11	11	50	100		
3	10	5 Coy RAASC	40	41	50	100		
4	11	Fd Hosp Kitchen	30	Nil	Nil	Nil		
5	12	HQ Coy Kitchen	30	25	50	92	Awaiting Vinell Connection	
6	13	5 Coy RAASC	77	76	30	100		
7	14	Replace Latrines	16	16	Nil	100		
8	15	5 Coy RAASC	25	24	Nil	100		
9	16	5 Coy RAASC	74	74	Nil	100		
10	17	102 Fd Kitchen	25	14	55	55	Awaiting Stores	
11	18	St Kilda Helipad	12	Nil	Nil	Nil	Awaiting Erection of Tower	
12	19	Aust Radio Station	8	2	Nil	25		
13	20	1 ALSG F Station	8	6	Nil	85	Awaiting Vinell Connection Plates for GPO	
14	21	HQ Coy	5	Nil	Nil	Nil		
15	22	5 Coy RAASC	19	Nil	Nil	Nil		
16	23	5 Coy RAASC	8	7	Nil	100		
17	24	ASCO	25	25	90	100		
18	25	MCE Kitchen	20	2	Nil	5	In Progress	
19	26	2 AOD Steam Cleaner	8	Nil	Nil	Nil		
20	27	5 Coy Sgt Accom	4	"	"	"		
21	28	2 AOD Store Light	30	"	"	"	Awaiting Stores	
22	29	17 Const Sqn Store	6	"	"	"		
23	30	Amenities	20	"	"	"		

Appendix 3 to Annex A
to 17 Const Sqn RAE
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ELECTRICAL PROJECT PROGRESS REPORT

Serial	Pri	Task	Man days Required	Total Man days Expended	% Previously Complete	Total Completed	Building Connected to Power (include bldg No's)	Remarks
24	31	17 Const Store	6	Nil	Nil	Nil		
25	32	Vampire Helipad	10	8	Nil	100		
26	34	2 AOD Store	8	Nil	Nil	Nil		
27	35	All Areas C/Fars	40	25	60	60		
28	36	AI SG F/Lights	15	Nil	Nil	Nil		
29	37	ASCO F/Lights	10	"	"	"		
30	38	Amenities Sgt Dinn	12	"	"	"		
31	39	MCE F/Lights	10	"	"	"		
32	42	2 AOD Q Store	12	"	"	"		
33	44	Amenities	30	"	"	"		
34	45	2 AOD Lits Ex	12	"	"	"		
35	46	Fd Hosp Q Store	10	"	"	"		
36	47	110 & Ess Ex	6	"	"	"		
37	43	Fd Hosp Canteen	10	"	"	"		
38	49	17 Const Sqn Wksp RA-IP	10	"	"	"		
		Hospital Complex - Switch Board - Phath-Dental and Completed Ciccuit Breaker Shrouds & Water Heater Still Required to Complete Wards						
		URM Electrical Day Calls 51		hours spent 49				
		Night Calls 23		" " 16				
		Building Connected to Vinell Supply		Nil				
		Building Wire for Mouth 11		(Already Connected Vinell)				
		Awaiting Connection		5				
		Building in Progewss		4				

Appendix 4 to Annex A
to 17 Const Sqn RAE
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WORKS - 1ATF

PLANT TASKS

1. Plant was involved in the site preparation for all vertical construction. In most cases the sites were filled and compacted, to reduce the need for additional drainage. Other plant tasks for the month were ;-

(a) In accordance with specific P27s,

(i) P27 - 149/69D : 104 Fd Bty helipad was graded, compacted and primed

(ii) P27 - 160/69D : Trees were removed and the site prepared for a 50' x 19' building at HQ Coy 1ATF.

(iii) P27 - 167/69D : 105 Fd Bty helipad was graded, compacted and primed.

(iv) P27 - 187/69D : A transpiration trench was cut for 3SAS Sqn.

(v) P27 - 218/69D : Peneprime was sprayed around Bldg No 438, Det 110 Sig Sqn, to reduce dust hazard to instrumentation.

(vi) P27 - 162/69D : The priming of various roads as a dust coat was completed, and

(b) Miscellaneous tasks

(i) The truck mounted earth auger was used during construction of the 1ATF FSCC/CP, in provision of sullage disposal, latrine and urinal facilities, and also assisted 1 Fd Sqn in the blast wall construction.

(ii) The revolving wheel mounted crane is being employed in the construction of the 1ATF FSCC/CP, in the quarry for jaw and engine changes and on miscellaneous tasks.

VERTICAL CONSTRUCTION

2. Tasks completed during March

Priority	P27 No	Task
N/Prog	89/69D	Provide tank and two water coolers for Adm and BHQ Bldgs 9RAR
N/Prog	148/69D	Construct 100ft fence, 12 Fd Regt
N/Prog	140/69D	Construct tropical type bldg 30' x 19' for A Branch, HQ 1ATF
1	411/68D	Construct 4 x 41'8" x 17'0" and 1 x 33'4" x 17'0" Accom Huts for 8 Fd Amb

3. Tasks in progress at end of Month

(a) Tasks Started

Priority	P27 No.	Task	% Complete
1	105/69D	Accom Huts(16 Off) - 161 Fd Bty	30
1	158/69D	Accom Huts(30 Off) - Det 17 Const	10
8	390/69D	Install Gas Cooking Units - 1ATF	10
21	27/69D	B Veh Wksps LAD - B Sqn 1A/Regt	90
22	28/69D	GE Wksp LAD - B Sqn 1 Armd Regt	90
23	29/69D	Const 60'x19' WF Offices and Store - C Sqn 1 Armd Regt LAD	98
25	36/69D	Const 60'x19' Q Store - A Sqn 3 Cav Regt	98
26	37/69D	Ext to OR's Rec Hut - A Sqn 3 Cav	5
27	38/69D	Distribution Stores Shed (2 Off) - 10FP	10
28	38/69D	Detail Self Service Store - 10FP	10
29	38/69D	Bulk Self Service Store - 10FP	10
31	202/69D	Office & Store - HQ Bty 1 Fd Regt	5
33	226/69D	CAP & OR's Rec Hut - 105 Fd Bty	5
N/Prog	118/69D	Steam Cleaner & Veh Ramp - 106 Fd Wksps	5
N/Prog	83/69D	Alterations to Bldgs 303 - 306 HQ 1ATF	30
N/Prog	173/69D	FSU/CP - HQ 1ATF	20

(b) Tasks in hand but not started

34	236/69D	Dining Room Sgts Mess - A Sqn 3 Cav	
35	235/69D	Offrs Mess Extension - A Sqn 3 Cav	
36	288/69D	Tels/Radar Wksps - 131 Div Loc Bty	
N/Prog	276/69D	Const 20ft Boom gate - 1ATF Quarry	
N/Prog	222/69D	Shower facilities - 3SAS Sqn	
N/Prog	135/69D	Assist Unit Const Hut - 53 Sig Sqn	

Appendix 5 to Annex A
to 17 Const Sqn RAE
Periodical Technical
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QUARRY REPORT

1. BARIA QUARRY

a. During March work was stopped at BARIA. One blast was made, and all available rock was transported to NUI DAT. The plant was returned to NUI DAT.

b. Reasons for the change are as follows.

1. Production time was lost in BARIA, with the necessary travel time of the quarry crew, and the long haul distance.

2. Permission was obtained from 1 ATF HQ to increase the horizontal area of NUI DAT Quarry, across Scheyville Loop, to the east.

c. Drilling

Total holes drilled	55
Length of holes	330 ft
Explosive used	190 lb

2. 1 ATF

a. Time was spent clearing the quarry floor, and organising stockpiles and drainage. Large boulders have been piled out of the way, for future use, disposal, or blasting.

b. A new, more permanent, protected sand pile at the western edge is now in use.

c. Drilling was attempted on the eastern face. The excessive moisture, and over burden caused difficulties with stems jamming. A D8 is now quite effectively ripping this face down.

d. New benches are being cut in preparation for the new crusher trains, and these sites are being planned with the possible use of LW18 Dumps in mind.

e. Blasting 703 lbs was expended, popping large rocks for crushing.

3. ROCK PRODUCTION

a. For the month one train only has functioned, producing $1\frac{1}{4}$", $\frac{3}{4}$, and fines.

b. The other secondary is now set to produce $\frac{3}{4}$", $\frac{3}{8}$", and fines, upon the arrival of a suitable engine, or parts for those at present available.

c. The third secondary that has been out of action for many months has now been returned to VUNG TAU for repair.

d. At present the one working engine is being set into a primary crusher to recrush the 3" coming from VUNG TAU. There has been large rock in this stockpile which the secondary crusher cannot handle.

...../e

6. The plan at present is to produce as much 3" rock as possible until secondary crushing is again possible.

f. Production Figures

	3"	1"-1½"	½"-¾"	Fines	Sand
Stock B/F	98	58	79	33	222
Production	100	345	227	228	215
Issues	105	299	303	168	388
Balance	93	104	3	93	49

3" - 80 yds 3" received from VUNG TAU
78 yds of 3" issued was issued for crushing

⅜" - 110 yds received from VUNG TAU, 110 yds issued, stock now nil yds.

BLAST ROCK - NIL yds received from Baria Quarry.

4. CRUSHING MACHINE HOURS

1757 P	-	74	Hours
1757 S	-	NIL	"
1758 P	-	NIL	"
1758 S	-	NIL	"
1770 P	-	NIL	"
1770 S	-	79½	"

Appendix 6 to Annex A
to 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

EDECTRICAL PROJECT

PROGRESS REPORT - 1ATF

SERIAL . PRIORITY *JUL/DEC MNW PROGRAM	TASK	MAN DAYS REQUIRED	TOTAL MAN DAYS EXPENDED	% PREVIOUSLY COMPLETED	% TOTAL COMPLETE	BUILDING CONNECTED TO POWER (INCLUDING BLDG NUMBERS)	REMARKS
1 6/68	2SAS Sqn - 7 Bldgs	14	10	71	71	822;823,826,825,809, 818,832	Remainder to be completed during rewiring of 2SAS
2 17/68	HQ Coy Wksps - 323	2	NIL	NIL	NIL	NIL	Bldg to be erected
3 26/68	2SAS Tent Wiring	16	"	"	"	"	Included Jan/Jun MNW
4 30/68	HQ 1ATF Tent Wiring	144	58	10	16	"	Awaiting Hutted Accom
5 53/68 *JAN/JUN MNW PROGRAM	Sleeping Accom	1200	57	3	4	Bldg No not available	8Fd Amb complete 161 Bty - 6 completed 17 Const - 4 completed
6 1/69	Sleeping Accom	360					Sec Serial 5 Jul/Dec program
7 2/69	1RAR Tent Wiring	100	186	90			Admin Coy to be wired
8 3/69	1ATF HQ Tent Wiring	70					Sec Serial 4 Jul/Dec program
9 4/69	12 Fd Regt CO Accom	3	3	100	100	Not Available	
10 5/69	ASCO Gift Shop	4	8	100	100	963	
11 6/69	1ATF Offr Rec Room	6	6	100	100	Ext to 315	Awaiting fans
12 7/69	106 Fd Wksps	4	5	100	100	5044	
13 8/69	1 Fd Sqn Service	6	4	NIL	100	174 & 175	
14 9/69	1 Fd Sqn Tent Wiring	4					Cancelled - Hutted Accom to be erected

SERIAL	PRIORITY	TASK	MAN DAYS REQUIRED	TOTAL MAN DAYS EXPENDED	% PREVIOUSLY COMPLETED	% TOTAL COMPLETED	BUILDING CONNECTED TO POWER (INCLUDING BLDG NUMBERS)	REMARKS
15	10/69	106 Fd Wksps - Bldgs 5025,5026,5028	27	27	85	85	5025,5026,5028	5026 - Awaiting Stores 5028 - " " 5025 - Completed
16	11/69	106 Fd Wksps	4	5	100	100	5046	
17	12/69	"	6	6	95	95	5043	Awaiting Stores
18	13/69	"	6	5	80	80	5045	" "
19	14/69	"	10	10	95	95	5042	" "
20	15/69	"	2	3	NIL	100	5047	
21	16/69	"	3	3	60	100	5049	
22	17/69	"	3	2	NIL	100	5039	
23	18/69	1ARU Dart Store	6	6	NIL	100	Not Available	21 Sp Tp Task
24	19/69	106 Fd Wksps	3	4	100.	100	5048	
25	20/69	"	3	5	NIL	100	5057	
26	21/69	"	3	5	NIL	100	5058	
27	22/69	161 Recce Tents	10	10	100	100		
28	23/69	106 Fd Wksps	15	15	NIL	100	5052	
29	24/69	2SAS Tent Wiring	20	NIL	NIL	NIL		Awaiting Labour
30	25/69	C Sqn Tent Wiring	30	40	NIL	100		
31	26/69	106 Fd Wksps	3	3	95	95		Awaiting Stores
32	27/69	C Sqn B Veh Wksps	4	4	NIL	100	5060	
33	28/69	C Sqn LAD GE Wksp	6	7	NIL	100	5061	
34	29/69	MEN Reticulation	30	5	NIL	15		Bldgs to be connected progressively
35	30/69	A Sqn 3 Cav	2	3	NIL	100	549	Bldg extended to 60ft
36	31/69	C Sqn LAD Store	3	3	NIL	100	5062	5061-5062 now one bldg
37	32/69	A Sqn 3 Cav Ext to ORs Rec Hut	3	NIL	NIL	NIL		Awaiting construction

SERIAL . PRIORITY		TASK	MAN DAYS REQUIRED	TOTAL MAN DAYS EXPENDED	% PREVIOUSLY COMPLETED	% TOTAL COMPLETED	BUILDINGS CONNECTED TO POWER(INCLUDING BLDG NUMBER)	REMARKS
38	33/69	Hanger 161 Recce Flight	6	NIL	NIL	NIL		Awaiting construction
39	34/69	21 Supp spare parts store						21 Sp Tp Task
40	37/69	1RAR HQ ATF TFMA Tent Wiring	30					CANCELLED 1RAR - Serial 2 1ATF - Serial 3 TFMA - Complete
*NON PROGRAMMED WORK - MARCH 69								
41	1	Light & power A Branch - HQ 1ATF	3	3	NIL	100	Not available	
42	2	8 Fd Amb Sgts showers	1	1	NIL	100	"	
43	3	Alterations to Bldgs 303, 304,305,306		10	NIL	100		No estimate of labour required to be made.
44	4	Comd Post 1ATF		1	NIL	2		As above
45	5	Offr & Sgts Mess rewire 1 Armd Regt		15	NIL	100		Not in MNW program
46	6	C Sqn Armd Regt LAD	6	6	50	100		For serial 28,27,31 MNW Program

Appendix 7 to Annex A
to 17 Const Sqn RAE
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WELL BORING REPORT

1. INTRODUCTION

As at the 28 Feb 69 holes 23 and 24 were in progress. Hole 23 was at 61 feet, in rock, and cased to 57 feet. Hole 24 was at 12 feet, in blue clay.

2. Hole 23 Drilling continued in rock to 67 feet, then in clay bound gravel, with some shale type layers to 90 feet. The bore was cased to 70 feet, then the following day cased to 80 feet. The drill stem was lost and recovered. Finally the casing was pulled out so slotted casing could be inserted at the 55 - 61 feet depth, and the bore drilled to 105 feet with casing to 105 feet. The bore gave 1500 gph, for 45 mins.

3. Hole 24 This bore was in blue clay at 28 Feb 69 and continued thus to 60 feet. There was a stream above the basalt at 59 feet. There was basalt from 60 to 72 feet, then clay. Time was lost while the baler was being repaired and the crew were required for a higher priority task. The well was cased to 63 feet. The driving shoe on the casing jammed and buckled, Three 10 ton jack systems could not extract the casing. The slotted section could not be placed across the aquifer, but this bore may still haul production value.

4. Hole 25 Started on 1 Mar 69, the bore was in clay from 4 to 43 feet, followed by basalt to 63 feet. Whilst casing the bore, the casing jammed. The system as for Hole 24 was employed to no avail. Again the slotted section is not across the aquifer, but this well has pumped fairly consistently at 1000 gph.

5. Hole 26 Started on 18 Mar 69, the bore had 4 feet of top soil, 4 - 20 feet of clay (with soakage at 20 feet) 20 - 25 feet of sandy clay, 35 - 64 feet of compact clay, 64 - 80 feet of clay bound gravel (with a small stream at 68 feet), 80 - 110 feet of sandy clay, 110 - 118 feet of water bearing gravel, and 118-150 feet of sandy clay. This bore has been cased to 146 feet. There has been little water found to date and it is proposed to drill to at least a solid layer.

6. Hole 27 Started on 19 Mar 69, the bore has 3 feet of top soil and from 3 to 18 feet clay, 18 to 60 feet clay and sandy clay, 60 to 71 feet volcanic rock (runs from a red rock to basalt with certain blue metal boulders at about the 65 - 67 feet mark). It is cased to 63 feet and is progressing, and should become a similar bore to the others in the area.

7. At present the wells are being test pumped with a local pattern pump, driven by a 250 cfm compressor. An output of at least 1000 gph for an 80 feet deep well has been consistently produced to date. This pump system could be used for productive water points quite satisfactorily.

8. Planning

a. A sixth hole 28, is to be dug in the area of holes 23, 24, 25, 26, 27 at GR 439671, with the aim of setting up a water point to supply the 4 RAR area.

b. The next site for drilling after hole 28 will be below the current Wombat Water Point, at GR 438664.

c. The Koala Water Point is to be Calgon treated in an attempt to inprove the declining production.

9. Summary The mouth's progress has been satisfactory, with only two delays - the bailer repair, and avail of casing. The present teams are becoming more conversant with the rig, and drilling techniques, but their replacement by skilled well borers is desirable. There has been little trouble with the rigs this month.

Annex B to 17 Const Sqn
RAE Periodical Technical
Report as at 31 Mar 69.

PERSONNEL

1. STRENGTH STATE

Name of Unit	Estab No & Date	Estab Strength		Posted Strength	
		Offr	OR	Offr	OR
17 Const Sqn	III/10/3 TW Nov 68			9	154
Det 17 Const Sqn				4	139
TOTAL		12	305	13	293
17 Const Sqn Wksps	III/40/2 TW Dec 68	1	53	1	52

2. Officer Postings

Appointment	Incumbent		
	No	Rank	Name
OC	335114	Maj	E.J. WERTHEIMER
2IC	235252	Capt	R.A. SLATER
Const Offr	17683	Capt	R.S.G. BARKER
Const Offr	235283	Capt	W.J. CREWS
QM	3781	Lt	C.H. HARROP
OC 8 Tp	21287	Capt	G.R. GRAHAM
OC 9 Tp	215665	Lt	R.L. McCANN
OC 10 Tp	17177	Lt	R.E. SNELLING
Tp Comd (Tall Pines)	47047	Lt	D.P. COWPER
Res Tp Comd Plant	17102	Capt	P.B. TAYLOR
Tp Comd	2786485	2Lt	D.R. WILKINSON
Admin Offr	1733484	2Lt	R.N. MINNIKIN
OC RAEME Wksp	18590	Capt	S.S. MEIKLEJOHN
Supernumerary	24420	Lt	W. FROST

3. Deficencies in WO's & Sgts

ECN 037 (asst Super C & M (Const)) Ssgt HAYES

4. Deficencies in Rank & File

ECN	Trade	Name
056	Bricklayer	Spr CLEAR
	"	Vacant
072	Carpenter & Joiner	Cpl BAKER
	"	Spr TOUGH
109	Driver	Spr STETLEY
	"	Spr JARMAN
140	Field Engineer	Spr LITTLE
	"	
	"	Spr USHER
	"	Spr KENNEDY
149	Fitter Engr Equipment	Spr RYAN
	"	Spr GANGI
314	Plumber & Pipefitter	Spr CLARK
	"	Spr POTTER
366	Stm Tech	Vacant
446	Welder	Spr MILLER
109	Driver	Spr WARDROPE
	"	Vacant
270	Op Plant	Spr WOOD
305	Painter & Decorator	Vacant

Annex C to 17 Const Sqn RAE
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as at 31 Mar 69

EQUIPMENT

1. The list of appendices to this Annex is :-

Appendix 1 - A & B Vehicles, Trailers and Compressors.

Appendix 2 - C Vehicles, Smallcraft and RAE Plant.

Appendix 3 - State of Refrigegators, Pumps and Concrete mixers

Appendix 1 to Annex C
17 Const Sqn RAE
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A&B VEHICLES, TRAILERS & COMPRESSORS
MAR 69

1. B Vehicles

Ser	Census Code No	Designation	Est	Held	Army Reg No	Total Miles Since New	Total Miles Since O/H	Condition	Source	Remarks
1	6005	Truck Ute ¼ ton GS	Nil	2	113185	19292	-	2A	Loan	
					113720	14519	-	2B	"	
2	6028	Truck Ute ¾ ton GS	19	8	112910	25527		2B	Est	
					112960	20500	-	2A	"	102 Fd Wksps
					113006	14464	-	2A	"	
					113030	10760	-	2B	"	
					113935	17243	-	1B	"	
					114343	15680	-	1C/	"	G406 raised
					114380	10919	-	1B	"	
					114521	17945	-	1B	"	
3	6028G	Truck Ute ¾ ton GS (W/Out Canopy)	Nil	15	112876	12558	-	2B	"	
					112951	18467	-	2C/	"	Major repairs
					113045	29662	-	2B	"	
					113932	10308	-	1B	"	
					114008	25370	-	1B	"	
					114013	16184	-	1A	"	
					114015	21326	-	1B	"	
					114021	15764	-	1B	"	
					114339	7193	-	1B	"	
					114386	9488	-	1A	"	
					114526	10335	-	1B	Loan	
					114547	11513	-	1B	"	
					172407	1375	-	1B	Est	
					172429		-	1B	"	Missing (Investigation in progress)
					174252	110	-	1B	"	
4	6028BG	Truck Ute ¾ Ton GS(W/Out canopy, W/Winch)	Nil	1	111919	4940	-	2/C/	"	102 Fd Wksps

Appendix 1 to Annex C
to 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

A&B VEHICLES, TRAILERS & COMPRESSORS

MAR 69

1. B Vehicles

Ser	Census Code No	Designation	Est	Held	Army Reg No	TOTAL MILES Since New	TOTAL MILES Since O/H	Condition	Source	Remarks
5	6069B	Truck Cargo 2½ ton GS W/Winch	Nil	4	170715	22651	-	1B	Loan	
					171164	3557	-	1B	"	
					171198	13820	-	1B	"	
					171436	12624	-	1B	"	
6	6143	Machine Shop, Truck Mounted 2½ ton GS W/Winch	1	1	107598	1270	-	1C/	Est	Stationary
7	6221	Truck Cargo 5 ton GS W/Winch	12	13	171608	15706	-	1B	"	
					171614	11375	-	1B	"	
					171620	6098	-	LB	"	
					171621	4715	-	1A	"	
					171624	14243	-	1B	"	
					171639	3759	-	1B	"	
					171640	4194	-	1B	"	
					171666	4864	-	1A	"	
					171677	5779	-	1A	"	
					171717	3183	-	1A	"	
					171718	3962	-	1B	"	
					171719	7315	-	1B	"	
					171736	5319	-	1B	"	
8	6254A	Truck Dump 2½ Ton GS W/Winch	Nil	1	108763	9814	-	2B	Loan	
9	6257	Truck Dump 5 cu yd GS W/Winch	17	18	171526	7827	-	1C/	Est	Wksps
					171538	11185	-	1C.	Loan	Wksps
					171541	11000	-	1C/	Est	102 Wksps
					171545		-	1B	"	Det Saigon
					171547	14618	-	1B	"	
					171550	4639	-	1B	"	
					171825	4240	-	1B	Est	
					171835	13983	-	1B	"	

A&B VEHIC[illegible]S, TRAILERS & COMPRESSORS
MAR 69

Appendix 1 [illegible] Annex C
to 17 Const[illegible]gn RAE
Periodical T[illegible]chnical Report
as at 31 Mar 69

1. [illegible] Vehicles

Ser	Census Code No	Designation	Est	Held	Army Reg No	Total Miles Since New	Total Miles Since O/H	Condition	Source	Remarks
9	6257	Truck Dump 5 cu yd GS W/Winch	17	18	171836	16627	-	1B	Est	
					171837	14267	-	1B	"	
					171839	9594	-	1A	"	
					171849	15137	-	1C/	"	Wksps
					171852	12094	-	1B	"	
					171871	1120	-	1A	"	
					171876	12558	-	1B	"	
					171878	10810	-	1C/	"	102 Fd Wksps
					171891	2123	-	1A	"	
					171894	1670	-	1B	"	
10	6282	Auger Earth, truck Mounted 2½ Ton GS W/Winch	1	1	170525	-	-	2C/	"	G406 raised
11	6283	Auger Earth, truck mounted 5 ton GS W/Winch	Nil	2	171685	1294	-	2C/	"	Awaiting parts
					171686		-	1B	Loan	
					174179	106	-	1B		
12	6820	Truck tractor 8 ton GS W/Winch	2	2	75062	13576	-	3C/	Est	G406 raised
					162244	31368	-	3B	"	
[illegible]	TRAILERS									
[illegible]	6015G	Trailer ½ ton Aust	17	6	101028	-	-	1A	Est	
t					101066	-	-	1 A	"	
					101074	-	-	1A		
2.		[illegible]			154368	-	-	1A	"	
					154370	-	-	1A	"	
					154443	-	-	1/A	"	
3.	6016	Trailer 1 ton Aust	18	6	100551	-	-	1A	"	
					100583	-	-	1A	"	
					100587	-	-	1A	"	
					100655	..	-	1A	"	

2. Trailers

Ser	Census Code No	Designation	Est	Held	Army Reg No	Total Miles Since New	Total Miles Since O/H	Condition	Source	Remarks
2	6016	Trailer 1 ton Aust	18	6	100706	-	-	1A	Est	
					100714	-	-	1A	"	
3	6822	Semi Trailer Low Bed 25 ton	2	2	101625	-	-	1A	"	
					101627	-	-	1A		
4	6575	Trailer 3 ton tipping	Nil	2	98238	-	-	1A	Loan	
					98240	-	-	1A	"	
3.	Compressors									
1.	4901/3	Compressor Air 250 cu ft IR	5	6	118059			Good	Est	
					31089			Fair	"	
					31854			Not Working	"	In workshops awaiting filters and work on pressure reducer
					31858			"	"	
					118047			Fair	"	
					31859			Fair	"	
2.	4901/5	Compressor Air 100 cu ft IR	1	1	118010			Not Working	"	In workshops awaiting air cleaner and points.

'C' VEHICLES, RAE, PLANT

Appendix 2 to Annex C
to 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

1 'C' Vehicles

SER	Census Code No	Designation, Make, Model, Attach	Est	Held	Army Reg No	Total Miles		Condition	Source	Remarks
						Since New	Since O/H			
1	6229	Crane Shovel Basic Unit Truck Mounted ½ Cu Yd W/6 Attachments	2	1	97171	484	Nil	1/B/-	Ord	
	6229	Crane Shovel Basic Unit Truck Mounted W/Clam Shell Attachment	Nil	1	97169	800	Nil	1/C/120	"	
2	6501	Grader Motorised CAT 12	4	4	96033	1485	Nil	2/C/30	"	
					96142	2977	Nil	2/B/-	"	
					96145	2596	Nil	2/B/	"	
					97141	1814	Nil	2/B/	"	
3	6509D	Crane Wheel Mounted 20,000lb Lift Revolving	1	2	98356	112	Nil	1/A/	"	
4	6513	Crane Shovel Basic Unit Crawler Mounted ⅝ cu yd W/6 attachments	1	1	96785	207	Nil	1/C/30	"	
5	6528	Scraper Semi Tractor 7/9 cu yd D Full	4	4	96851	1091	Nil	3/B/	"	
					96852	187	Nil	3/B/	"	
					96951	1417	Nil	3/C/60	"	
					96952	1506	Nil	3/C/120	"	
6	6531A/ A16/P11	Tractor Full Tracked Low Speed Size 'O' W/FEL & BH	Nil	1	98307	527	Nil	1/C/120	"	
7	6531A/ L32/N3	Tractor Full Tracked Low Speed Size 'O' W/AD&W	Nil	1	98300	2009	Nil	1/C/120	"	
8	6534/K8/ L29	Tractor Full Tracked Low Speed Size 4 W/BD & PCU	1	1	97071	6872	Nil	3/B/		

Appendix 2 to Annex C
to 17 Const Sqn RAE
Periodical Technical Report
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'C' VEHICLES, RAE PLANT

1. 'C' Vehicle

Ser	Census Code No	Designation, Make, Model, Attach	Est	Held	Army Reg No	Total Miles		Condition	Source	Remarks
						Since New	Since O/H			
9	6534/K8/N7	Tractor Full Tracked Low Speed Size 4 W/BD&R	Nil	3	98294	1509	Nil	1/C/120	Ord	
					98289	2057	Nil	1/B/	"	
					98290	1617	Nil	1/B/	"	
10	6534/K8/G11	Tractor Full Tracked Low Speed Size 4 W/BD & W	3	3	98279	2143	Nil	1/B/	"	
					98280	960	Nil	1/B/	"	
					98281	271	Nil	2/B/		
11	6536/L2/G2	Tractor Full Tracked Low Speed Size 6 W/AD & W	2	2	98398	3554	Nil	1/B/	"	
					98402	N/K		N/K	"	On loan to 1 Fd Sqn
12	6536/K3/N10	Tractor Full Tracked Low Speed Size 6 W/BD & R	2	4	96390	1542	Nil	1/B/	"	
					96391	859	Nil	1/B/	"	
					96392	441	Nil	1/C/150	"	
					96393	961	Nil	1/B/	"	
13	6549A	Entrenching Machine Combat 6' Deep 2' Wide Trench	Nil	1	96821	149	Nil	1/C/120	"	
14	6565	Tractor Wheeled Indust Size 5 Ferguson W/Out Attachments	Nil	1	98198	291	Nil	1/B/-	"	
15	6565/L1	Tractor Wheeled Indust Size 5 W/AD Attachment	Nil	1	98201	665	Nil	3/C/120	"	
16	6567/W1	Tractor Wheeled Indust Size 7 W/Fork Lift & Crane Attach	1	1	96982	Res Troop			"	
17	6568/P13	Tractor Wheeled Indust Size 8 W/mp Bucket	Nil	2	97174	621	Nil	2/B/	"	
					97175	577	Nil	2/B/	"	

ppendix 2 to Annex C
o 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

'C' VEHICLES, RAE, PLANT

1. 'C' Vehicle

Ser	Census Code No	Designation, Make, Model, Attach	Est	Held	Army Reg No	Total Miles Since New	Total Miles Since O/H	Condition	Source	Remarks
18	6568/ P12/N7	Tractor Wheeled Indust Size 8 W/GO Bucket & Ripper	4	4	97199	483	Nil	1/B/-	Ord	
					97200	380	Nil	1/B/	"	
					98368	393	Nil	1/B/	"	
					98370	263	Nil	1/B	"	
19	6575	Trailer 3 ton Tipping Massly Ferguson	Nil	2	98238	-	Nil	1/C/90	"	
					98240	-	Nil	1/B/-	"	
2	RAE PLANT									
1		Distributors Bitumenous Material 1,000 Gal Pacific Ace	Nil	1	164702	1710	Nil	1/B/-	Engr	
2		Distributor Bitumenous Material 1,000 Gal Thornycroft	Nil	1	165172	4206	Nil	1/C/120	"	
3		Roller Towed Vibrating 10,000 lbs	1	2	80810	112	Nil	1/B/	"	
					80798	84	Nil	1/B/-	"	
4		Roller SP Multi Wheeled 25,000 lbs Pacific Ace	1	1	74781	320	Nil	2/B/-	"	
5.		Roller Road 3 Wheeled McDONALD	Nil	2	74756	487	Nil	3/C/120	"	
					74762	683	Nil	3/B/-	"	
6		Roller Towed Open Faced Hyster	Nil	1	80795	NA	Nil	1/A/-	"	
7		Sweeper Rotary Towed 7' Brush	Nil	2	164714	-	-	1/C/120	"	
					164780	-	-	1/B/-		
8		Roller Towed Vibrating 3,000 lbs Daveleco	1	1	80751	21	Nil	2/B/-		
9		Crushing & Screening Unit Hadfield	Nil	1	70003	304	Nil	2/C/10	"	
					70008	264	Nil	2/C/90	"	

STATE OF STATIC MOTORS

REFRIGERATORS, PUMPS, CONCRETE MIXERS

APPENDIX 3 TO ANNEX C
PERIODICAL TECHNICAL REPORT
AS AT 31 MAR 69

SER NO	CENSUS CODE NO	DESIGNATION AND MAKE	ESTB	ON CHARGE	ARMY NO	CONDITION	REMARKS
9	10852/02	Stellar trailer mounted purification equipment paterson type 6B	Nil	6	164685	Good	17 Const Sqn (Res Tp)
					164684	"	" " " " "
					164675	Not working	Res Tp for Repairs
					164674	Good	PBC water point
					164686	"	" " "
					164691	"	" " "
10	NIL	Pump centrifugal (Petters)	3	3	10096	Not working	Res Tp for Repairs
					B 10535	Good	Tpt Tp
					10737	Not working	Res Tp for Repairs
11	6532/01	Pumpassembly flameable liquid	2	1	87470	Pump Ok.	Original engine in for Repairs.Loan engine on Pump
12	7833/01	Gen set Gas engine wisconsin 2.5 KVA	3	3	122101	Good	9 Tp
					121698	"	Elect sect
					121658	"	Det 17 Const Sqn
13	-	Pumps centrifugal "Alcon" mechanical driven		4	20172	Good	17 Const Sqn
					20168	"	Det 17 Const Sqn
					20141	"	" " " "
					20169	"	" " " "
14	-	Pumps gentrifugal Electric driven		1	HD54022	Good	17 Const Sqn (PBC water point)

STATE [illegible] MOTORS
REFRIGERATORS, P[illegible]S, CONCRETE MIXERS

APPENDIX [illegible] TO ANNEX C
PERIODICAL TECHNICAL REPORT
AS AT 31 MAR 69

SER No	CENSUS CODE NO	DESIGNATION AND MAKE	ESTB	ON CHARGE	ARMY NO	CONDITION	REMARKS
1	10454/00	Mixer concrete 16 cu. ft	Nil	6	164646	Not working	Res Tp for Repairs
					164645	" "	" " " "
					164655	Poor	Det 17 Const Sqn
					164644	Good	
					164648	"	17 Const Sqn (9 Tp)
					164766	"	Det 17 Const Sqn
2	10418/00	Mixer concrete 7 cu. ft	Nil	2	164872	Good	Det 17 Const Sqn
					164873	"	17 Const Sqn (9 Tp)
3	10614/03	[illegible]					
	10614/01	Goldstein refrig 100 cu. ft.	4	4	31932	Good	Det 17 Const Sqn
	10614/01				31216	"	" " " "
					31228	Not working	Motor in for Repairs
4	10612/06				30211	Good	17 Const Sqn
	10612/08	Goldstein refrig 30 cu.ft.	5	4	31851	Good	Det 17 Const Sqn
	10612/08				34355	"	17 Const Sqn
	10612/08				34367	"	" " "
					34351	"	" " "
5	10624/07	Goldstein refrig 10-12 cu. ft	2	2	34475	Good	Det 17 Const Sqn
					34457	"	" " " "
6	10639/01	Goldstein refrig 300 cu.ft.	1	1	31996	Good	17 Const Sqn
7	NIL	Pump centrifugal bull frog	Nil	1	54015	Good	"Q" Store
8	5387/05	Welding machine ARC gen type 40/170 McCullock	2	2	4302	Not working	In for Repairs
					4713	Good	Res Tp.

Appendix 2 to Annex C
to 17 Const Sqn RAE
Periodical Technical Report
as at 31 Mar 69

'C' VEHICLES, AE, PLANT

2. RAE, PLANT

Ser	Census Code No	Designation, Make, Model, Attach	Est	Held	Army Reg No	Total Miles		Condition	Source	Remarks
						Since New	Since O/H			
10		Crushing & Screening Unit Hadfield	Nil	1	70516	264	Nil	2/C/90	Engr	
					70009	368	Nil	2/C/90	"	
11		Primary Crushing Unit Aveling Barford	Nil	3	164640	1850	Nil		"	Awaiting Engine Parts
					164678	1590	Nil		"	
					164639	2087	Nil		"	More detail next report
12		Secondary Crushing Unit Aveling Barford	Nil	3	164641	555			"	
					164642		In RAE Wksp VUNG TAU		"	
					164767	147			"	
13		Spreader Aggregate 8' Truck mounted	Nil	1	71523	N/A		3/B/-	"	

TRAINING

1 ATF

1. Military Skills

The detachment had one full day training in March. TOETs were held for all weapons. All members fired their personal weapon and the GPMG. Lessons were given on trip flares and voice procedure. Three periods were devoted to a safety exercise involving rules of engagement, briefing of sentries and precautions when using the Claymore mine.

2. Physical Training

Physical training has been restricted to sport. Members are involved in Soccer, Swimming, Volleyball and Cricket.

1 ALSG

3. Weapon Handling

During the month all members at 1 ALSG fired personal weapons and threw two grenades.

4. Physical Fitness

Training runs and a 5 mile run in one hour were completed by all members of 17 Const Sqn. The Rugby Union Inter- unit Grand Final was won by 17 Const Sqn (3-0 vs 2AOD) on 1 Apr 69.

5. TRADE TESTS.

a. A three week MHEO course was conducted during the month for 1 ALSG. Two members of 17 Const Sqn, namely Sprs HORNE & SILVER, attended the course and qualified for ECN T268 (restricted). The restriction was due to the non availability of a second crane eqpt (the Austern Western was the only crane available for the course).

b. Spr EGAN is at present undergoing a trade test for Surveyor (Engineering) Grade 1.

ANNEX 02 TO
COMDS DIARY
APR 69

17 Const Sqn RAE
VUNG TAU

7 Apr 69

R723-1-1

D Engrs

17 CONST SQN RAE

PERIODICAL TECHNICAL REPORT

FOR PERIOD 1 MAR 69-31MAR 69

Reference: A. 17 Const Sqn R723-1-1 dated 5 Apr 69.

1. Annex A, Appendix 2 (WORKS - 1 ALSG) page 3, para 6e (Contract Support) of the above report is incorrect.

2. Para 6e should read:

e. Contract Support

(1) Aggregate 210 cu yds
(2) Sand 145 cu yds

(E.J. WERTHEIMER)
Maj
OC

For Information
HQ 1 ATF
HQ 1 ALSG
198 Wks Sect
Det 198 Wks Sect
CE AFV (2)

Internal
17 Const Sqn Wksp
9 Tp
10 Tp
Res Tp
Plant Tp
Mech Tp
Tpt Tp
OC
2IC
OC Det 17 Const Sqn
Const Offr VT
Const Offr ND
File
Spare